

**BRANTFORD, ONT.**—The motion made in the courts on behalf of Mr. James Grace to quash by-law No. 504 of the city of Brantford, passed 16th April, 1894, providing for the issue of debentures to raise \$61,000 for the construction of sewers, on the ground that it was not submitted to the electors, and on other grounds has been dismissed.

**HAMILTON, ONT.**—The Board of Education have selected a site on Sophia street for the proposed new school. The recommendation of the Board of Works to engage Mr. F. B. Rae, of Detroit, to make an estimate of the cost of installing an electric light plant, was struck out by the Council at its meeting on Monday last. A new surgical wing is to be erected to St. Joseph's hospital. Mr. A. W. Peene, architect is inviting tenders until to-day (Thursday) for the erection of two houses on Hughson street south. Building permits have been granted as follows: O. A. Horning, pr. 2 story brick dwellings on Grove street, between Wellington and Liberty streets, cost \$4,000; John Lowery, pr. 2 story brick dwellings on Emerald street, between Cannon and Robert streets, cost \$2,000; Mrs. Reid, 2 story brick dwelling on Rebecca street, between Mary street and Ferguson avenue, cost \$1,200.

**MONTREAL, QUE.**—The architect for the Canada Life Assurance Company's new building to be erected on the corner of St. Peter and St. James streets, is Mr. Richard Waite of Buffalo. The building will cost about half a million dollars and will be nine storeys high.—Mr. C. S. St. Jean, architect, is preparing plans for a Catholic church at Upton.—Architects have been invited to submit competitive plans for the proposed Masonic Temple, to be erected on Dorchester street.—The Market Committee of the City Council is considering a scheme to abolish the St. Annes and the old St. Antoine markets, and to replace both by a new building, to cost about \$90,000. If this project is not carried out, the St. Antoine market will be rebuilt at a cost of \$10,000.—Messrs. Dunlop & Heriot are preparing plans for the erection of the tower of St. George's church, which will be 120 feet high. A new system of ventilation will also be introduced, the whole to cost \$20,000. The same architects are preparing plans for a row of stores to be erected on the old Erskine church property. The building will be erected to the height of one story at present, but it is the intention to add four or five storeys later on, for the accommodation of a first class hotel. A large warehouse on Common street for Mr. James Wilson will also be erected from plans prepared by Messrs. Dunlop & Heriot.—Messrs. Perrault, Mesnard & Venne, architects, are preparing plans for a number of large buildings to be erected this summer, among which is a new theatre, which will cost in the neighborhood of \$75,000. The site has not yet been selected by the promoters, but the corner of Bleury and St. Catherine streets is spoken of, also the site of the present Theatre D'Opera Francais, corner of St. Dominique and St. Catherine streets; should the latter site be chosen, a row of stores would be erected on St. Catherine street in connection with the project. A resolution has been adopted by the promoters of the permanent fever hospitals, recommending the Local Board of Health to proceed at once to select a site, in order that the architects may estimate the cost of drainage and water supply. The architects chosen are Messrs. Perrault & Mann.—New tenders are asked by the Superintendent of Waterworks until the 8th inst. for supplying and erecting a double horizontal turbine and power pumps. The sum of \$45,000 has been subscribed toward the reconstruction of the Montreal General Hospital.—Mr. Resther, architect, has prepared plans for a new armory for the Mount Royal Rifles. A site has been selected, and work will be commenced at an early date.—Mr. L. J. Seargeant, General Manager Grand Trunk Railway, invites tenders until May

31st for stores of various kinds required by the company at Montreal, London, Hamilton and other places, for twelve months from 1st July.

**TORONTO, ONT.**—At the meeting of the City Council on Monday last, it was decided to issue debentures for \$50,000 to provide funds for the erection of new school buildings in various parts of the city.—The City Engineer has reported to Council that the cost of constructing a system of waterworks for the island would be in the neighborhood of \$60,000. In regard to the application of Mr. Frank Turner, C. E., for permission to construct a system, he recommends that the city own and operate its own works on the island, and that the request be not granted.—An asphalt pavement is recommended on Winchester street, from Parliament street to Ontario street, at a cost of \$7,440.—The Toronto Golf Club have about completed the purchase of 30 acres of the Fernhill estate which the club has had leased for a number of years. It is the intention of the club to erect a new club house and make other improvements thereon.—We learn that the New England Theatre Company, of Boston, Mass., has purchased the Davidson property on the corner of Spadina avenue and Sullivan street and propose to erect a first-class modern theatre, at a cost of \$100,000. Mr. H. Bridgewater, is acting as agent for the company, in Toronto. It is reported that Messrs. Darling, Sproatt & Pearson, architects, will prepare the plans, and that it will be a three-story brick structure, with brown stone facings.—The Ontario Legislature have sanctioned the following railway subsidies: \$3,000 per mile to the Irondale, Bancroft & Ottawa Railway Company, from a point near Irondale easterly for a distance of fifteen miles; \$7,500 per mile to the Northern & Pacific Junction Railway Company, for a spur line from a point near Burk's Falls, to connect with the navigation of the Maganetawan River, a distance of about one and a half miles; \$3,000 per mile to the Ottawa, Arnprior & Parry Sound Railway Company for a line from Barry's Bay, a distance of thirty five miles; \$3,000 per mile to the Ontario & Rainy River Railway Company, from a point near Land Lake to a point near Moss Township and Kawawagamog River, a distance of 35 miles.—Tenders will be asked by the Board of Works for Siemens & Adams meters, to be manufactured in Toronto.—An item of \$15,000 to purchase two diamond drills for mining has passed the Ontario Legislature.—Building permits have been granted as follows: J. Clark, pr. s. d., 2 story and attic bk. dwellings, e. side Markham st., w. of Arthur st., cost \$4,500; Land Security Co., alterations to building, e. of Y. M. C. A. Hall, cor. Queen st. and Dovercourt Rd., and 1083 to 1093 Queen st. w., cost \$7,000; M. Findlay, extension to dwelling, 345 Markham st., cost \$1,400; Jos. Tilt, alterations to hotel, 112 and 114 Queen st. w., cost \$1,200; T. R. Earles, pr. s. d., 2 story and attic bk. dwellings, 423 and 425 Markham st., cost \$7,000.

#### FIRES.

The public school building at Watford, Ont., was destroyed by fire on Monday last. Insurance, \$2,200.—W. C. Chit's store at Aurora, Ont., was burned a few days ago. Loss, \$3,800; insurance, \$2,600.—Moore & Macdowell's extensive saw mills near Edmonton, N. W. T., were burned on the 28th inst. Loss, \$9,000; no insurance.—A five-story brick and stone building situated on Notre Dame street west, Montreal, and owned by Laporte & Martin, was destroyed by fire a few days ago. The loss on the building, including stock, will be in the neighborhood of \$150,000, which is partially covered by insurance.—An hotel at Cheltenham, Ont., occupied by Mr. Oakes, was burned last week; insurance \$1,300.—A. McKeegan's residence at Strathroy, Ont., and Fawcett's sash and door factory, were destroyed by fire on the 28th April. Loss on factory, \$3,000; no insurance.—The

Town Hall at Brampton, Ont., was destroyed by fire on Tuesday last.—J. C. Morden's store and residence at Green'sville, Ont. was burned recently. Loss, \$2,500; insurance, \$1,500.—The pattern shop of the Royal Electric Co., Montreal, together with the 15,000 horse power incandescent light machine, was destroyed by fire on the 1st inst. The loss will reach \$60,000, which is covered by insurance.

#### CONTRACTS AWARDED.

**WAUBAUSHENE, ONT.**—Mr. Eaton, of Orilla, has secured the contract to erect a number of houses in this village.

**OWEN SOUND, ONT.**—The tender of R. Clark, at \$2,040, has been accepted by the Council for alterations to the Town Hall.

**MEAFORD, ONT.**—The Central Bridge & Engineering Co., of Peterboro', have been awarded the contract for erecting a steel bridge over the Big Head River, their tender being \$1,230.

**GUELPH, ONT.**—The Board of Works have accepted the tender of the Guelph Silica Barytic Stone Co. for the construction of stone pavements, the prices being 13 cents for walks and 18½ cents for crossings.

**OTTAWA, ONT.**—The contract for the new Lazaretto at Tracadia, N. B., has been let by the Public Works Department to Mr. William Stewart, of this city. The contract price is in the neighborhood of \$40,000 or \$55,000. Work will be commenced immediately.

**HAMILTON, ONT.**—Mr. J. J. Morehouse, the smelting works prospector, informs us that the contract for the smelting works plant has been awarded to the Philadelphia Engineering Co. of Philadelphia, at the contract price of \$360,000, and that the work is to be finished by January, 1895.

**HALIFAX, N. S.**—Messrs. Gordon & Keith, of this city, have been awarded the contract for furnishing the new hotel at Sydney, C. B. The contract will amount to about \$10,000.—The tender of H. H. Fuller & Co. for the supply of cement has been accepted by the Board of Works. About 2,000 barrels will be required.

**COLLINGWOOD, ONT.**—The Town Council have accepted the tender of Mr. Geo. J. Scott, of Oshawa, for an electric fire alarm system, at the price of \$528. The other tenders received were as follows: A. Anderson, Toronto, \$527.50; Bell Telephone Co., Toronto, \$547.18; T. W. Ness, Montreal, \$600.00; Ahearn & Soper, Ottawa, \$677.35.

**QUEBEC, QUE.**—D. Ouellet, architect, has awarded the following contracts: The rebuilding and inside finish of a sacristy to St. Andrew to Jos. Gosselin, of Levis, value \$7,500; inside finish and decoration of the R. C. Church in the parish of Becumont to the same contractor, value \$6,500. The building of a new stone sacristy in the parish of Ste. Louise, Islet, to M. Wm. Bernier, of St. John, Port Joli, Islet, value \$4,000.

**TORONTO, ONT.**—At the last meeting of the Board of Works, the contract for an asphalt pavement on Queen street, from Yonge street to River street, was awarded to the Construction and Paving Co., their tender being \$72,990. The other tenders received were: Warren Scharfe Co., \$73,850; Connolly & Co., \$74,372; Trinidad Asphalt Refining Co., New York, \$75,562. Tenders for bricks were awarded to Wagstaff & Co. at \$6.15 per thousand, east of Yonge, and to John Price, at \$6.70 per thousand, west of Yonge. The Rathbun Co., was awarded the contract for the Star brand of cement at 64 cents per 100 lbs.

Messrs. Head & Bossons, architects and contractors, Portage la Prairie, Man., have dissolved partnership.

Mr. J. L. Wells, President of the American Plumbing Company, of Winnipeg, has decided to remove to Brandon and is closing up his business in the former place.

#### NEW COMPANIES.

**MONTREAL, QUE.**—Wood Vulcanizing Co., seeking incorporation, capital \$75,000.

**TORONTO, ONT.**—Niagara River Tramway Co., seeking incorporation; capital \$40,000: to build a cable Tramway across the Niagara River; incorporators, John Flett and Joseph Tait, M. P. P., Toronto, R. N. Campbell, of Niagara Falls, and others.

#### STONE-WORK.

Stone walls are measured by the perch (24½ cubic feet). Openings less than 3 feet wide are counted solid: over 3 feet deducted, but 18 inches are added to the running measure for each jamb built. Arches are counted solid from their spring. Corners of buildings are measured twice. Pillars less than 3 feet are counted on 3 sides as lineal, multiplied by fourth side and depth.

It is customary to measure all foundation and dimension stone by the cubic foot. Water tables and base courses by lineal feet. All sills and lintels or ashlar, by superficial feet, and no wall less than 18 inches thick.

The greatest safe load on super. foot on

Granite Piers.....	= 40 tons.
Lime stone Piers.....	= 25 "
Sand stone Piers.....	= 15 "
Brickwork in cement.....	= 3 "
Rubble Masonry.....	= 2 "
Lime Concrete Foundations.....	= 2½ "

The height of brick or stone piers should not exceed 12 times their least thickness at base.

## MUNICIPAL DEPARTMENT.

### TORONTO JUNCTION SEWERAGE SYSTEM.

Mr. Willis Chipman, C.E., has published his final report on the sewerage system of the town of Toronto Junction, showing the total length of sanitary sewers to be 6.57 miles; of combined sewers 0.27 miles; and of storm sewers 3.96 miles; number of manholes, of which 11 are double, 143; flush tanks, 26; catch basins, 100; lamp-holes, 440. The average cost per foot of sanitary sewers was \$1.78; of combined sewers, \$4.21; of storm sewers, \$2.45; of sewer system, \$2.08. Mr. Chipman, in his report makes acknowledgement of the assistance rendered to him by ex-Mayor Pears, ex-Chairmen Hoover and Wright, Mr. Abrey, Town-Engineer; Mr. Leigh, Town Clerk; Mr. Clemmer, Town Treasurer; and Mr. A. L. McCulloch, C.E., Resident Engineer.

The flow of water through new cast-iron pipe was recently measured by S. Ben-Russell, of the St. Louis, Mo., Water-Works. The pipe was 12 inches in diameter, 1,631 feet long, and laid on a uniform grade from end to end. In a letter to John C. Trautwine, Jr., Mr. Rusell states that as there was an opportunity to make some pretty accurate measurements of the discharge of the pipe, he had the necessary observations carried out and found that under an average total head of 3.36 feet the flow was 43,200 cubic feet in seven hours; under an average head of 3.37 feet the flow was 46,700 cubic feet in eight hours and 35 minutes. Making allowance for loss of head due to entrance and to curves it was found that the value of  $c$  in the formula  $v=c\sqrt{r\ s}$  was from 88 to 93.

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