

produced by water power. Surveys have been made by engineers of the West branch of the East river, who have recommended the construction of a dam 30 feet high, to be located near the village of Hopewell.

VANCOUVER, B. C.—Mr. C. O. Wickenden, architect, is preparing plans for a two-story building to be erected on the corner of Hastings and Cambie streets for Mr. Harvey Haddon. To take the form of an arcade. The basement will be of stone, and the remainder chiefly iron and glass. The work will be tendered on at an early date.

GUELPH, ONT.—The Board of Directors of St. Joseph's hospital have decided to erect a new building in the near future. It will cost in the neighborhood of \$20,000, and the dimensions will be about 100x40 feet. The site selected is near the present structure. On Monday of last week a meeting of the Board was held, at which it was decided to procure plans for the building immediately.

OTTAWA, ONT.—The Cobourg, Northumberland and Pacific Railway Co. have entered into a contract with the Government for a subsidy for the construction of a line of railway 50 miles in length, running from Cobourg to Central Ontario Junction, on the C.P.R. Arrangements have been made with wealthy capitalists to advance the money for the building of the road.—A large deputation waited on the Dominion Government on Tuesday last, urging a grant of \$250,000 towards the proposed interprovincial bridge between Ottawa and Hull.—A new block is to be erected on the property adjoining the Brouse building on Sparks street.

TORONTO, ONT.—The Toronto Ferry Company have commenced the construction of a new ten-acre park at Hanlan's Point, upon which a new quarter-mile cinder track will be laid and two large grand stands erected. The work is to be completed this year.—The City Council has given notice of its intention to construct a cedar block roadway on Bloor st., from Dufferin street to Lansdowne ave.; estimated cost \$15,500.—The recommendation of the City Engineer for the establishment by the city of an electric light plant was referred back by the Fire and Light Committee at their last meeting. The question will, therefore, not be considered by the Council until after the summer vacation.—The York County Council has adopted the report of the Commissioners on County Property recommending that a new steel bridge or stone arch be erected on the site of the present Highland creek bridge, on Kingston road. The abutments of the Rouge bridge have been injured by the recent floods and will have to be rebuilt at an early date.—Mr. D. Macdonald, 13 North street, this city, has been commissioned to let a contract for furnishing a 100-light electric plant for a hotel on Muskoka lake.—The Medical Health Officer has been requested to furnish the Executive Committee of the City Council with an estimate of the probable cost of establishing and maintaining an independent hospital for the treatment of consumptives, and also to report upon the present accommodation at the hospitals.—An asphalt pavement will be constructed on Beverley street and granolithic pavements on Spadina avenue, Wellesley and Queen streets.—Building permits have been granted as follows: A. R. Boswell, pr. s. d. 2 story and attic bk. dwellings, e. side Spadina Road, n. of Lowther ave., cost \$12,000; J. B. Reid & Co., large coal shed, s. side Esplanade st., foot of Berkeley st., cost \$2,000; Dr. Cassidey, alterations at 131 Church st., cost \$1,300.

MONTREAL, QUE.—Mr. Church, president of the Drummond County Railway, states that no construction work will be done this year, but the line will probably be extended to Levis next summer.—A special committee has been appointed in connection with the committee of management of the Western hospital to secure a building for the lying-in department. The idea is to add a new wing to the pre-

sent building, the old structure to be devoted to the purposes of a general hospital.—Mr. John Farquharson will erect a large biscuit factory in this city.—The Road Committee will recommend to Council the paving of Maisonneuve street between Doichester and St. Catharine, and of Young and St. Catharine streets west of Fort street.—Mr. A. Davis, Superintendent of Waterworks, will receive tenders until Tuesday, the 26th inst., for the supply of the following stores: lumber, bricks, cement, lime, oils, tallow, cotton waste, packing, lamps, hardware, lead pipe, pig lead and tin.—Mr. P. W. St. George, City Surveyor, will receive tenders until Wednesday, the 27th inst., for the construction of sewers on the following streets: La Salle street, from Mainanne street to Mount Royal avenue; Mount Royal avenue, from Amherst st. to Papineau ave.; Mignonne street, from St. Denis street to Sanguinet street; Notre Dame street, from Guy street to Lusignan street; Stanly street, from end of existing sewer opposite official No. 1770, northward a distance of about thirty yards.—The City Surveyor will also receive tenders until the same date for each kind of asphalt and composition sidewalk required during the year, and for the supply of flagstone, curbstone, scoria blocks, and the laying and re-laying of same.—Messrs. Perrault, Mesnard & Venne, architects, are preparing plans for a convent to be erected at Mount St. Vincent, Halifax, N. S. Same architects will shortly call for tenders for the erection of a Catholic church at Pawtucket, N. S.—Mr. C. St. Jean, architect, is preparing plans for a country church.—Mr. W. E. Doran is calling for tenders for store and dwelling to be built on Notre Dame st. for Mrs. Costello. Same architect is also calling for tenders for two brick houses to be erected on Papineau Square for Jas. Mulally.—Some improvements are contemplated by the Dominion Government to the St. Vincent de Paul penitentiary in this city.—The City Council will request the Dominion and Provincial Governments to grant aid to the proposed bridge across the St. Lawrence river from this city to Longueuil.—Ludger Lemieux, architect, is calling for tenders for the erection of three stone front buildings, three storeys high, for Mr. Andre Lapiere.

FIRES.

Unoccupied houses at Kingston, Ont., owned by S. Harkness and P. Lamouroux, were destroyed by fire recently. Loss, \$3,000.—The cheese factory at Milford, Ont., owned by Walter Striker, was destroyed by fire last week. Loss on building, \$1,500; insurance, \$1,000.—Flater & Henry's carriage works at Blenheim, Ont., have been destroyed by fire.—J. & T. Conlon's saw mill at Little Current, Ont., was consumed by fire on the 14th inst. Loss \$50,000; insurance, \$20,000.—Corry Bros' steam grist and saw mill at Havelock, Ont., were destroyed by fire recently. Loss \$6,000; small insurance.—The shingle and planing mill at Hepworth, Ont., owned by James Hawley, together with his residence, was destroyed by fire on the 13th inst. Loss, \$2,500; no insurance.—Moses Holt's hotel at Aylmer, Que., was destroyed by fire last week.—Leguin & Co.'s flour mill at Farnham, Que., was destroyed by fire on the 16th inst. Loss, \$11,000; insurance, \$4,000.—Geo. Smelser's hotel at Cheapside, Ont., was burned recently.

CONTRACTS AWARDED.

DARTMOUTH, N. S.—J. N. McElmon's tender for an addition to the Grenvale building has been accepted by the School Board. Contract price, \$4,375.

NIAGARA FALLS SOUTH, ONT.—The contract for the erection of a new wing to Loretto convent has been awarded to Messrs. Newman and Battle, of St. Catharines.

ST. STEPHEN, N. B.—Contracts for building the St. Stephen and Calais bridge have been awarded as follows: piers, Jos. McVay, of St. Stephen, \$12,000; superstructure, Boston Bridge Company, \$14,300.

GUELPH, ONT.—The following contracts for the erection of houses have been awarded:—Robert Dowrie, pressed brick residence on King street, two story, 46x22 ft. Contractors—R. Mahoney, carpenter; Rundell & Foster, stone and brick work; Moffat Bros., painting; Geo. Howard, tinsmithing; J. J. Mahoney, plastering.—House for Mrs. Elliott, Chambers street, 50x32, two story and attic, pressed brick. Contractors—Darby & Beckman, carpenters; T. Matthews, stone and brick work; J. J. Mahoney, plastering; D. E. Rudd, tinwork; Walker & Mahoney, plumbing. Mr. W. T. Tanner is the architect in each case.

TORONTO, ONT.—The Property Committee of the Separate School Board have awarded contracts as follows, the lowest tender being accepted in each case: new school on Fern avenue, masonry, Bayliss & McCurdy, \$6,400; carpentry, Enos Hallett, \$5,490; plumbing, Keith & Fitzsimmons, \$245; painting, Phenimore & Harvey, \$290; plastering, E. Warner, \$997; tinsmithing, W. Spafford, \$96; heating and ventilating, Smead, Dowd & Co., \$2,580; roofing, H. Williams & Co., \$1,115; total cost \$17,313. Enlargement of Bolton avenue school—masonry, W. Hamblin, \$222; carpentering, M. Hutchinson, \$6,358; painting, W. S. Pearcey, \$662; plumbing, Keith & Fitzsimmons, \$180; plastering, E. Warren, \$887; tinsmithing, W. Spafford, \$37.50; roofing, A. W. Webb, \$1,155; heating, etc., W. J. Burroughes & Co., \$510; total cost \$10,011.50. Enlargement of Givens street—masonry, Thomas Cannon & Sons, \$1,897; carpentering, H. Martin, \$5,159; painting, Dill & O'Hearn, \$649; plumbing, Keith & Fitzsimmons, \$155; plastering, E. Warren, \$874; tinsmithing, W. Spafford, \$50; roofing, George Duthie & Son, \$1,375; heating, etc., Smead Dowd & Co., \$3,700; total cost, \$13,859. Enlargement of Dewson Avenue—masonry, W. Wood, \$2,895.82; carpentering, Enos Hallett, \$3,209; painting, Phenimore & Harvey, \$345; plumbing, E. Warren, \$406; tinsmithing, W. Spafford, \$75; roofing, A. W. Webb, \$376.18; heating, etc., Smead, Dowd & Co., \$1,065; total cost \$8,617. The total cost of these improvements will be \$49,800.

MONTREAL, QUE.—Mr. W. McLea Walbank, architect, has awarded contracts as follows for a three-storey stone front store on Notre Dame st., for Mr. J. G. Kennedy: masonry, Louis Hughes; brickwork, D. Marsan. He has also awarded the contract for a wharf and crib work at Dorval, Que., for the St. Lawrence Yacht Club, to Alex. Jeffrey.—Messrs. Perrault, Mesnard & Venne have awarded contracts for the furnishing of the new Seminary of Philosophy for the Seminary of Montreal to Paquet & Godbout.—Mr. W. E. Doran has awarded contracts for two stores and dwellings on the corner of Prince & Common streets for Mrs. Shannon as follows: masonry, J. B. Delorimier; brickwork, A. Gauthier; carpenter and joiners' work, W. F. Coupland; roofing, Geo. W. Reed; plumbing, T. Christie; plastering, D. Duplessis; painting and glazing, C. O'Brien. Same architect has awarded the contract for masonry of a four storey building on Notre Dame st. for B. E. McGale to Louis Hughes.—Mr. J. H. Macduff, architect, has awarded contracts for three stone front cottages on Chandebouye ave., Cote St. Antoine, for Macduff, Bray & Co., as follows: excavation and cement work, A. Bray; masonry, A. Guilbault & Co.; carpenter and joiners' work, O. Dion; brick, O. Bernard & Co.; plumbing and heating, C. G. Brodeur; roofing, E. C. St. Amour; electric wiring, N. Simoneau; plastering, J. Chamberlain; painting and glazing, F. Brisebois; also for a three storey brick building for Bernard & Coulon as follows: masonry, A. Paquette; brick Bonaldmour & Deslauriers; carpenter and joiner's work, A. Myre; plumbing and roofing, Thos. Moll; plastering, S. Gosselin; painting and glazing, J. Guy. Same architect has also awarded contracts as follows for a vault at the City Hall of St. Henri, Que.: brick, Tessier & Provost; steel work, A. & E. Loignon.

BIDS.

ORILLIA, ONT.—The following are the tenders received for installing an incandescent light plant for the town. Canadian General Electric Company, \$9,450; Westinghouse Company, \$14,956; United Electric Improvement Company, \$10,525; Reliance Electric Mfg. Company, \$13,675; Royal Electric Company, \$13,250.

MUNICIPAL DEPARTMENT.

SEWAGE DISPOSAL.

The claim is made for Germany of having the most complete and successful system of sewage disposal of any country on the continent of Europe. In Berlin, where the features of this system are so perfectly represented, the drains from the houses receives both the rain water, the refuse water from the kitchen, &c., and the contents from the water closets, conducting them to an arrangement of radial sewers, through which, by a natural fall, they pass to a dozen different pumping stations within the area of the town. From these the sewage, through the medium of combined force and suction pumps, proceeds through pipes of three feet or still greater diameter to the land which the corporation of Berlin possesses, the material thence making its final exit through a system of conduits so arranged that, before reaching them, it has parted with all its manurial power to the soil through which it is made to pass. The sewage water thus filtered reaches the river through the natural fall of the conduits in a comparatively purified state.

In an article in The Foundry, by S. Groves, the writer dwells upon the danger of the hammer test on cast-iron pipes when under pressure. He instances two pipes which were subjected to a pressure of 260 pounds, in which condition a ball weighing 1½ pounds was let fall upon them from varying heights. The pipes were then broken, and against wherever the ball had struck there were star-shaped fractures on the inside of the pipe, extending into the metal from 3-32 inch to 5-32 inch. From this he concludes that a hammer test of cast iron pipes instead of being a safeguard is a source of danger. The pipes tested were 4 inches diameter, 9 ft. long, ⅝ inch metal. He infers that there is a like danger in the case of all castings that are to be used under high pressure, and from which the cores are loosened by hard hammer blows.

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