

It was decided to leave the question of a summer convention and excursion to a vote by letter, the council being instructed to suggest two or three alternative towns, such as a trip to Sault Ste. Marie or an excursion up Lake Erie.

The convention closed with votes of thanks to the railways, etc.



Rev. H. Blackwell
President Canadian Society of Civil Engineers.

Municipal Works, Etc.

Robt. D. Grant, of Toronto, has been awarded the contract for a wharf at Sturgeon Falls.

The advisability of a bridge between East and West St. John, N.B., is being discussed.

In Brantford 9,369 feet of cement walk was put down last season, and only 631 feet of board walk.

C. H. Rust, city engineer, Toronto, has recommended the purchase of an asphalt plant. It will cost about \$23,000.

Dupont & Leduc, C.E., of Montreal, have completed plans for waterworks for Plessisville, Que. The cost will be about \$34,000.

The Toronto Board of Control will apply for authority to proceed with a bridge over the railway tracks at the foot of Yonge street.

About \$7,000 was expended last year on improvements to the Berlin, Ont., waterworks. The profits of the works, which are under municipal management, were about \$7,500.

A new 5,000,000 gallon engine, to cost about \$30,000, is recommended for the high level station of the Toronto waterworks, the present engines not being equal to the work required.

The contract for the construction of the waterworks at Marieville, Que., has been let to Jno. F. Connolly, of Toronto. It amounts to \$40,000. Dupont & Leduc, of Montreal, are the engineers.

Wighton & Co. have been awarded the contract for alterations to the Bank of Montreal building in Montreal. It is one of the largest contracts given out in that city in recent years.

The Victoria Machinery Co. has the contract to build the superstructure of the new Point Ellice bridge at Victoria, B.C. The figure is \$65,000 and the bridge is to be completed in ten months.

Anchor ice is causing serious difficulty at the Peterboro waterworks. The Otonabee Power Co. has no difficulty, and offers to supply auxiliary power to run the works, the water commissioners to put in their own generator.

The extensions to the Sydney, N.S., waterworks have been completed, and in describing them The Record pronounces the works to be one of the best in the Maritime Provinces. W. T. Jennings, of Toronto, reported on the system, and it has been carried out under the direction of W. G. Yorston, C.E.

A gigantic gas trust is reported to be in process of formation, which will include the companies in London and nearly all the important cities of Europe. The capital will be nearly a billion dollars, of which John D. Rockefeller is said to be down for \$300,000,000.

A change from complete gravitation to a combined gravity and pumping system has been made in the Glace Bay, N.S., waterworks, thus providing for a supply of water from McDonald's Lake if necessary, giving more head, and reducing the cost. C. M. Odell is continued as engineer in charge of construction.

The Northwest Land Co. has purchased from the Government 500,000 acres of land in Southern Alberta for \$3 an acre, which is to be brought under cultivation by irrigation. The C.P.R. will irrigate 2,500,000 acres at a cost of \$7,500,000, taking the water power from the Bow River. The land when reclaimed will be worth \$10 an acre.

Frozen water pipes at Sault Ste. Marie are thawed by electricity, a transformer being mounted on a sleigh for the purpose. Connection is made with a primary street wire, and the current led to the transformer through a water rheostat, and thence to the frozen pipe. Attachment is made at two places, and the current passes directly through the section of pipe which is frozen. The charge is \$3.

T. S. Rubidge, chief engineer of the Galops Canal, and L. K. Jones, secretary to the Minister of Railways and Canals, have been consulting Major Thomas W. Symons, United States engineer for the Buffalo district, with reference to building a dam in the St. Lawrence, between Adam's Island and Galops Island, to raise the water in the Galops Canal. It will be 800 feet long and 15 feet high.

C. H. Rust, city engineer, Toronto, anticipates great difficulty in getting material for road and sidewalk construction the coming season. Cement is scarce and stone hard to obtain. The railways are so busy with grain and lumber freights that they do not care to haul stone. Sixty local improvement works have been held over from last year, only twenty of which were begun. Concrete for the island sidewalk is being taken over on the ice.

The Good Roads Machinery Co., of Hamilton, Ont., have added new machinery to their plant during the past year, and have opened a new department—the manufacture of granolithic culvert and pipe moulds, which will enable municipalities to construct their own concrete and granolithic drains and culverts. These moulds will be made in eight sizes, and will be a great convenience to municipalities in carrying out their own work economically. Full directions for use are sent with these moulds.

During the year 1902 the city of Winnipeg laid 64 miles of sewers, 27 miles of macadam pavements, 9¼ miles of asphalt pavements, 16¼ miles of cedar block pavement, 44 miles of boulevards, 10 miles of granolithic sidewalks, 176 miles of plank sidewalks and 74 miles of water pipes. The cost was as follows: Sewers, \$1,344,000; macadam pavements, \$481,000; asphalt pavements, \$520,000; cedar block pavements, \$330,000; boulevards, \$44,600; granolithic sidewalks, \$130,000; water pipes, \$352,000.

The following by-laws were voted on and carried at the municipal elections: Guelph, to buy out the Light and Power Co. by the city; Listowel, to take over the electric light and waterworks; Belleville, to place the management of the water works in the hands of the council; New Hamburg, to build a bridge; Orillia, to put in force the county road system; Collingwood, to put in force the good roads by-law and to expend money in improving the harbor; Strathroy, to take over the electric light system by the town, and to build waterworks; Fort William, to improve the electric light system, and to raise \$5,000 for sewers and sidewalks; Owen Sound, to purchase the electric light and gas plants; Sault Ste. Marie, to give a 25 year franchise to the Tagona Water & Light Co.; Sandwich, to abolish water commissioners; Gananoque, in favor of waterworks. The following by-laws were defeated: Merritton and Grimsby, to build granolithic sidewalks; Peterboro, for permanent improvements; Lindsay, to spend \$40,000 for good roads.