

Churchill, and encountered no difficulties in all the two hundred miles. Since April they have been busy taking soundings in Churchill harbor. They have also inspected Nelson, and report that excellent harborage can be secured at either point.

**WINNIPEG.**—S. C. Hill & Son, who for the past three years have been engaged in bridge construction for the National Transcontinental east of the city, are moving part of their plant to Alberta this week, where they will be engaged in similar work for the Grand Trunk Pacific and the Calgary branch. Mr. Hill has secured the contract for the erection of the bridges on the first fifty miles of this branch. The outfit will be taken to Tofield on the G.T.P., from which point the teams will be driven in to the point where the first bridges are to be built. Of these latter there are two large structures, one over the Battle River, three thousand feet long and one hundred and fifteen feet high, and one smaller bridge eight hundred feet long. Mr. Hill has still to build the bridge over the Seine River east of the city and to complete one or two smaller structures, but with this exception all the work on his contract on the National Transcontinental is done. The bridge over the Seine will be built as soon as the course of the railway into the city through St. Boniface is determined.

**WINNIPEG.**—The announcement was made from the offices of the Grand Trunk Pacific recently that Smith Bros. & Wilson, of Regina, have been awarded the contract for the erection of over forty station houses along the main line between Winnipeg and Edmonton. All of these stations will be of a modern and artistic type, and the majority will cost in the vicinity of \$5,000, while several will run as high as \$10,000. Some of the points where these will be erected are Scott, Earl, Lazare, Kelliher, Punnichy, Seamans, Allan, Meighen, Ingloe, Justice, Hope, Uno, and Asquith. The Grand Trunk Pacific is spending a very large amount of money in whipping the western line into first-class shape, and the money spent on new buildings will figure into the hundreds of thousands.

**WINNIPEG.**—E. J. Chamberlin, vice-president and general manager of the Grand Trunk Pacific, has under consideration the bids for the construction of a most important section of that road. The contract calls for the completion of the dump through a somewhat rough country, extending from the Copper River, which is the east end of the present contract, east to Aldermere, a distance of 130 miles. In this division it is estimated that there are 1,500,000 cubic yards of rock to be removed. At a somewhat high estimate, it is computed that it will cost from \$2 to \$3 a yard to move this rock, which would mean an expenditure of from \$3,000,000 to \$4,500,000. The entire cost of the construction of the dump for the distance is estimated at from \$5,000,000 to \$6,000,000. For the first one hundred miles of construction from Prince Rupert east, the Grand Trunk Pacific will have to pay about \$8,000,000. This contract is now being completed by the firm of Foley, Welch & Stewart, who expect to get through with their work in October. The expenditure of \$8,000,000 on this hundred miles is explained by the fact that a great deal of work is being done at Prince Rupert, and that the work of the hundred miles is chiefly in a rocky country. The contract which is now being considered is for work through a country presenting fewer engineering problems and with less rock work.

#### **British Columbia.**

**VANCOUVER.**—Macdonell, Gzowski & Company, who had the contract for constructing the spiral tunnels in the Rockies, by which the "Big Hill" grade on the C.P.R. main line will be greatly reduced, was in the city recently closing up accounts in connection with the work. The whole of the contract, which is the biggest piece of tunneling ever carried out in Canada, was completed and handed over to the company some days ago.

**VANCOUVER.**—Owing to the big increase in the traffic on the lines of the British Columbia Electric Company, and with a view to future developments on the new lines, whose construction is nearing completion, a new appoint-

ment has been made by the company of an assistant to F. R. Glover, the assistant manager, to have special charge of the Chilliwack line. S. L. Prenter, who for twenty-four hours has been associated with the C.P.R., has been given the appointment. Mr. Prenter is one of the best known railway men in Vancouver.

## **CEMENT—CONCRETE.**

### **Quebec.**

**SHERBROOKE.**—Considerable cement will be used in the construction of new buildings to be erected at this point by the C.P.R. The Sherbrooke Construction Company have the contract.

### **Ontario.**

**GUELPH.**—As will be seen by our advertising pages, Mr. L. Malcolm, city engineer, invites tenders for the construction of three concrete bridges, approximating 700 cubic yards of concrete.

**NIAGARA FALLS.**—J. S. McCracken has secured a contract from the School Board for concrete walks at 11½c. a foot.

### **Saskatchewan.**

**MOOSE JAW.**—A contract for a concrete bridge to cost \$7,490 has been given to the Parsons Construction & Engineering Company, and one for walks to cost \$13,495 has been awarded to Navin Bros.

### **Foreign.**

**NEW YORK.**—In the construction of the foundations for the railroad terminal that is being built by S. Pearson & Son, Ltd., at Vera Cruz, Mexico, approximately 3,000 Raymond concrete piles will be employed.

## **LIGHT, HEAT, AND POWER.**

### **Ontario.**

**TORONTO.**—The hydro-electric terminal station in Toronto is to be located on Garrison Common, at the foot of Strachan Avenue, if the Board of Control's suggestion is adopted. The station will be 400 feet long and 200 feet deep.

### **Quebec.**

**MONTREAL.**—After October 1st the Montreal Light, Heat and Power Company will allow a discount of 33⅓ per cent. on five-year contracts. The present rate is 15 per cent.

## **SEWERAGE AND WATERWORKS.**

### **Quebec.**

**MONTREAL.**—Mr. George Janin, superintendent of the Montreal Waterworks, invites tenders until September 14th for waterworks extensions.

### **Ontario.**

**NORTH TORONTO.**—In future the work of sinking water mains will be let by contract in this municipality.

### **British Columbia.**

**VANCOUVER.**—The demand of the city for sewer pipe this year has been so great that the plant from which the supply is usually obtained has been totally unable to keep up with the demand. Thirty carloads have been brought in from Seattle and St. Louis and other shipments have been ordered. In addition, 10,000 feet of 10-inch pipe has been ordered from the Old Country.

## **FINANCING PUBLIC WORKS.**

The following municipalities have sold debentures:—Blandford Township, Ont., \$4,022.70; Red Deer, Alta., \$4,500; Whitewood, Sask., \$4,000; Nokomis, Sask., \$8,000; Delta, Man., \$10,000; Sydney Mines, C.B., \$25,000; Hawkesbury, Ont., \$9,400; Killarney, Man., \$10,000; Invermay, Sask., sidewalks, \$1,000; Carleton County, N.B., \$26,000; Madawaska County, \$12,000.

### **Ontario.**

**GUELPH.**—The ratepayers will vote on by-laws to authorize the erection of two new bridges, and also for local improvements, the cost of which will be covered by the issuance of debentures.