

In Chapter 6 are the following statements: "An accurate topographic survey of the entire territory will be of great value. . . . Many street plans have been made which are very attractive on paper but which are found to be entirely impractical when transferred to the ground. Had a sufficient topographic survey first been made, such impossible plans would not have been proposed." The subject of thorough topographical city maps is one of great importance to all Canadian cities and to most of the cities of the United States. In Europe, one of the first things they did was to make accurate maps of their cities and on these all city planning is based and all engineering problems planned. If this book can be criticized it is because the author did not devote a chapter to this important subject. The book is, however, one that should be in the library of every municipal engineer, city surveyor and all other engineers whose work lies in dealing with city problems.

PUBLICATIONS RECEIVED.

Department of Labor, Ottawa.—Fifth Annual Report (1915) on labor organizations in Canada.

Mines Branch.—Annual report of the minister of mines, Victoria, B.C., for the year 1915, being an account of mining operations for gold, coal, etc., in the province of British Columbia.

Results of Physical Tests of Road-Building Rock.—Bulletin No. 370 of the United States Department of Agriculture. By Prevost Hubbard, chemical engineer, and Frank H. Jackson, Jr., assistant testing engineer.

Saskatchewan.—Map showing the disposition of lands of this province corrected to January, 1916. Prepared in the Railway Lands Branch, Department of the Interior, Ottawa, under the direction of Mr. F. C. C. Lynch, superintendent.

American Society of Municipal Improvements. Proceedings of the 1915 convention.—This volume just to hand contains the papers and discussions read before the convention last year, among which are a number of addresses that will be found of considerable interest to all municipal engineers. It contains 618 pages, bound in cloth, and forms a very welcome addition to municipal engineering literature.

Annual Report of the Association of Ontario Land Surveyors.—This publication contains the report of the proceedings of the twenty-fourth annual meeting held in Toronto in February, 1916. It contains the report of the meeting, the president's address, reports of the various committees, together with papers presented before the meeting and the discussions which grew out of them. It contains 388 pages, 6 x 9 inches.

Concrete Sewers.—This is a 44-page pamphlet issued by the Portland Cement Association, 111 West Washington Street, Chicago, giving information as to the merits of concrete in sewer construction, as found in different parts of the United States and Canada. The pamphlet is very fully illustrated, showing concrete sewer pipe in its various stages of construction and also deals with the laying of concrete sewer pipe. It contains a list of the cities using concrete sewers in the United States and Canada, of which there are about 200. The pamphlet will be found of great interest to all those who have to do with the construction, design and maintenance of sewer work.

Range Finder and Slope Card.—This is a little instrument designed by Capt. C. R. Young, Assistant Professor, Structural Engineering, University of Toronto, Adjutant, School of Infantry, Camp Borden. By means of this instrument one is able to find distances and slopes by a very simple and rapid method. It may also be used for approximate topographical surveys with advantage. It can be used for any units—the yard, metre, foot, inch, etc. It consists of a 3-in. x 6-in. card of opaque celluloid with a string attached measuring 25 inches exactly. This string enables the user to hold the card exactly 25 inches from the eye when using the range finder. The reverse side of the card contains instructions for its use and a table of approximate dimensions of familiar objects on the landscape. A protractor on the reverse side makes the instrument useful for determining the slope of ground and also for finding the height of any point above the ground upon which the observer stands. The instrument is to be had at bookstores or The Canadian Engineer Book Department at 85 cents each. Instructions for using the instrument accompany each one.

CATALOGUES RECEIVED.

Pelton-Doble Centrifugal Pumps.—Bulletin No. 9, issued by the Pelton Water Wheel Co., San Francisco, Cal., describing with illustrations their different types of centrifugal pumps.

Belts.—An interesting little twelve-page magazine which is issued monthly by the Federal Engineering Co., Limited, Toronto, discussing the economics of belting and allied subjects.

Schoop Metal Spraying Process.—A sixteen page illustrated booklet issued by the Metals Coating Company of Canada, Limited, Montreal, describing their process of metal spraying.

Cooling Water for Ice Plants.—Small folder issued by the Spray Engineering Co., Boston, Mass., describing their method of cooling circulating water for ammonia or steam condensers by spraying.

Portable Conveyers.—Bulletin No. 184 of The Jeffrey Manufacturing Co., Columbus, Ohio, describing their portable conveyers for handling barrels, boxes, sacks, packages, bags, etc. Contains 11 illustrated pages.

Spraco System for Cooling Condensing Water.—Bulletin No. 201, issued by the Spray Engineering Co., 93 Federal Street, Boston, Mass. Contains 16 illustrated pages describing the "Spraco" system in use by different firms.

Concrete Reinforcement Bars.—The Burlington Steel Company, of Hamilton, Ont., have recently issued a catalogue dealing with concrete reinforcement bars. It contains a great deal of useful information for all those who have to do with the design and construction of reinforced concrete work. The catalogue is excellently printed and illustrated, and contains thirty-four 9 x 12-inch pages.

Domestic Gas-Engine-Driven Contractors' Machinery.—A new 28-page, 6x9 bulletin issued by The Domestic Engine & Pump Co., Shippensburg, Pa., describing their line of gas-engine-driven contractors' machinery, which includes diaphragm, centrifugal, combination and force pumps, geared and chain-driven hoists and special hoisting outfits for applying power to hand derricks. A number of new electric-motor-driven pumping outfits are also shown. A copy of this bulletin may be obtained by application to Domestic Engine & Pump Co.