

Price, \$1. Published by the Engineering News Publishing Co., 220 Broadway, New York.

**The Assistant Engineer** (Book I., The Axeman).—By Prof. Jean P. Genthon, assistant engineer Aqueduct Commissioners, member of the Municipal Engineers of the city of New York. Published by the Chief Publishing Co., 45 Centre Street, New York. Pp. 50; size, 6 x 9.

**The Assistant Engineer** (Book VIII.).—By Prof. Jean P. Genthon. Published by the Chief Publishing Co., 45 Centre Street, New York. Pp. 60; size, 6 x 9.

**Modern Bridges for Illinois Highways.**—Issued by a commission, of which A. N. Johnson is State engineer. Published by the Illinois State Journal Co., State printers, Springfield, Ill. Pp. 40; size, 6 x 9.

**Report of the Department of Mines**, Province of Nova Scotia, for the year 1909. Compiled by Christopher P. Chisholm, Commissioner of Public Works and Mines. Pp. 250; size, 6 x 9. Published by the Chronicle Printing Co., Limited, Halifax, N.S.

**Designers' Charts for Reinforced Concrete.**—By H. B. Andrews, Mem. Am. Soc. C.E. Published by author (166 Devonshire Street, Boston, Mass.) Pp. 40; size, 9 x 12. Price, \$1.

**Unit Coal and the Composition of Coal Ash.**—Bulletin No. 37. By S. W. Parr and W. F. Wheeler, University of Illinois Engineering Experiment Station. Published by the University, Urbana, Illinois. Pp. 70; size, 6 x 9. Price, \$1.

**The Mechanics' Hand Book.**—A reference book for all persons interested in mechanical engineering, steam engineering, electrical engineering, railroad engineering, hydraulic engineering, bridge engineering, etc. Issued by the International Correspondence Schools, Scranton, Pa. Published by the International Textbook Co., Scranton, Pa. Pp. 330; size, 4 x 5. Price, \$1.

**The Field Practice of Railway Location.**—By Willard Beahan, B.C.E. Published by the Engineering News Publishing Co., New York. Pp. 260; size, 6 x 9. Price, \$3.

**Modern Location of Standard Turnouts.**—By C. M. Kurtz, B.S. Published by the author, 234 Iowa Street, San Francisco, Cal. Pp. 70; size, 4 x 6. Price, \$1.25.

## ORDERS OF THE RAILWAY COMMISSIONERS OF CANADA.

Copies of these orders may be secured from the Canadian Engineer for a small fee.

10003—March 26—Authorizing C.P.R. to construct, maintain, and operate its Regina, Saskatoon and North Saskatchewan Branch across the highways between mile 0 and mile 14.7 on the said Branch.

10004—March 29—Approving plan of C.N.R. of subway for a crossing on Massey Farm, Lot 35, Con. B, Tp. of Scarborough, Ontario.

10005—March 22—Dismissing application of Elder-Dempster & Company, without prejudice to the rights of any person interested to any relief the Board may deem proper upon a different set of facts being presented to it, for an Order directing the C.P.R. Company and the G.T.R. Company to apply the established export basis covering general merchandise and commodities shipped from points in Eastern Canada to Montreal, Quebec, St. John, New Brunswick, and Halifax, N.S., for export to Vancouver, Victoria, and other British Columbia points.

10006—March 11—Directing that the C.P.R. construct a suitable highway crossing over the road known as the Graham-Grinton Road, situate 1½ miles south of the said town of Armstrong, B.C.

10007—March 26—Authorizing the C.P.R. to cross highways of a portion of its Snowflake Extension and spur to international boundary from mile 9.2 to mile 15.9.

10008—March 26—Authorizing the C.P.R. to construct and operate the Virden to McAuley Branch of its railway across highways between mile 0 and mile 14 on said Branch.

10009—March 26—Authorizing the C.P.R. to lay its tracks across all the highways on the Teulon Extension of its Stonewall Branch, from mile 56.55 to mile 73.88, from Rugby Junction.

10010—March 21—Directing that the C.P.R. Company's Telegraph, the Great North-Western Telegraph Company, and the Canadian Northern Telegraph Company file with the Board, not later than April 12th, 1910, new tariffs of tolls covering telegraphic services to newspapers.

10011—March 29—Amending Order No. 9854, dated March 11th, 1910, relieving the G.T.R. from providing further protection where its railway crosses the highway at rail level one mile south of Caldwell in the County of Grey, and the application of the G.T.R. to amend said Order by striking out the words "Caldwell" and "Grey" in the fourth line of the recita to the Order, and substituting therefor the words "Colwell Junction" and "Simcoe."

10012—March 29—Authorizing the Bell Telephone Company to erect its aerial wires and cables across the track of the London & Port Stanley (L. E. & D. R. Railway) Railway Company at public crossing, Ottawa Avenue, London, Ont.

10013—March 29—Directing that the G.T.R. install within sixty days from the date of this Order, an electric bell, at the crossing of Canfield Street, in the city of Belleville, Ontario, by the tracks of the Grand Trunk Railway Company.

10014—March 29—Authorizing the Hamilton Powder Company to ship by railway in their present packages, which do not in all respects comply with the requirements of the Order of the Board No. 7881, dated August 27th, 1909, explosives now on hand in the Hamilton Powder Company's magazines at Nanaimo, Vancouver, Cranbrook, and Nelson, B.C.

10015—March 30—Authorizing the C.P.R. to construct a branch line at or near Marysville Station, on Lot 2377, Group 1, Kootenay District.

10016—March 30—Approving Standard Freight Tariff C.R.C. No. 37, of the Essex Terminal Railway Company.

10017—March 26—Authorizing the C.P.R. to lay its tracks and to divert the highways on its Lethbridge to Aldersyde Branch from mile 0 to mile 28.

10018—March 30—Authorizing the G.T.R. to construct a branch line to the premises of Isaac J. Rank, Hagersville.

10019—March 30—Approving agreement between the Woodbridge and Vaughan Telephone Company, and the Bell Telephone Company, also the Union Telephone Company, Limited.

10020—March 30—Authorizing the C.N.O.R. to divert and cross by an overhead structure the public road between Lots 20 and 21, Con. 2, Township of Scarboro, Station 499.50, Ontario.

10021—March 31—Authorizing the C.N.O.R. to construct its line across the public road between Lots 18 and 19, Con. 4, Tp. of Pickering, Ontario.

10022—March 25—Directing that the cost of operating and maintaining the gates at the highway crossing of M. C. Railway just west of the Comber Station, be borne and paid, ten per cent. by the Township and the balance by the Railroad Company.

10023—March 30—Ordering the Railway Company concerned in the crossing at the following point be relieved for the present from providing further protection at the crossing named, it appearing from an inspection made by the Board's Engineer and Operating Department, and from plans furnished, that the view at the crossing is excellent from both directions; that the crossing signboard is properly placed, and that there are whistling posts on the railway.—G.T.R. crossing 1¼ miles south of Lacolle Junction, in the Parish of Lacolle, County of St. Johns, and Province of Quebec.

10024—March 22—Adding the County of Peel and the Tp. of Toronto as parties in the matter of protection at crossings by the G.T.R. at Port Credit, Ontario.

10025—March 22—Adding the County of Oxford as a party in the matter of protection to be provided at the crossing of the highway by the Grand Trunk Railway, just east of the Station at the Police Village of Beachville, Ont.

10026—April 1—Approving location of the C.N.R. through Townships 5-6, Ranges 11-18, west and Meridian, Province of Saskatchewan, mileage 95.58 to 147.14, from Junction at Maryfield.

10027—March 31—Authorizing the C.P.R. to construct an industrial spur and siding to the premises of Henry Noah Sereth, at mileage 15.04, east of Cranbrook.

10028—March 26—Authorizing the C.P.R. to lay its tracks across all the highways on its Weyburn to Lethbridge Branch from mile 0 to mile 26.2.

10029—March 31—Authorizing the Montreal & Atlantic Railway Company, (C.P.R.), to divert the highway crossing in the town of Sweetsburg, Quebec.

10030—March 24—Rescinding Order No. 9782, dated the 21st of February, 1910, in connection with refusal of Bell Telephone Company to connect with the West Williams Telephone Company's telephone system at Parkhill, Ontario.

10031—March 31—Authorizing the G.T.R. to construct a bridge carrying the farm crossing at Lot 2, Con. 1, of the Township of Fullerton, Ontario, (near Sebringville) across the 20th District of the G.T.R. at mile post 122.84.

10032—March 31—Amending Order of the Railway Committee of the Privy Council respecting the interlocking, derailing and signal system at the intersection of the G.T.R. with the Ontario & Quebec Railway (C.P.R.) at a point four miles west of Chatham, by approving of the addition of a four lever section to the original interlocking machine.

10033—March 31—Approving Stress Sheet for bridges Nos. 17, 18, and 20, being three highway crossings adjoining the Soulanges Canal, Quebec.

10034—March 31—Directing that the G.T.R. within sixty days of the date of this Order install an electric bell at the crossing just west of Rockwood Station, Ontario.

10035—March 31—Authorizing J. A. Coleman of Winger, Ontario, to lay and thereafter maintain a gas pipe under the tracks of the G.T.R. at public highway 4½ miles west of Marshville, Ontario.

10036—March 31—Authorizing J. A. Coleman of Winger, Ontario, to lay and thereafter maintain a gas pipe under the tracks of the Michigan Central Ry. Co., at public highway, Montague Station, in the Province of Ontario.

10037—March 31—Authorizing the Canadian Niagara Power Co., to erect its wires for the transmission of electrical power over the International Bridge and the lines of the G.T.R. upon the said International Bridge in the Village of Bridgburg, County of Welland, Ontario.

10038—March 31—Authorizing the C.P.R. to construct and operate an industrial spur for Messrs. P. Burns & Company, located north of Silver Avenue, and between Golden and Morrow Avenues, Toronto.

10039—April 1—Authorizing the Chatsworth Rural Telephone Company to erect its telephone wires across the track of the C.P.R. ¼ mile north of Chatsworth Station, Ontario.

10040—April 1—Authorizing the Department of Public Works of Saskatchewan to construct a highway over the tracks of the Pasqua Branch of the C.P.R. by extending Rouleau Street southerly in the Townsite of Wilcox, Province of Saskatchewan.

10041—April 1—Amending Order of the Railway Committee of the Privy Council, dated September 10th, 1895, in connection with the interlocking, de-