The Canadian Engineer

INDEX TO VOLUME 32

January 1 to June 30, 1917

Accidents—Good Roads Increase;† 365. Accounting for the Contractor and its Relation to His Organization—Cost; L. H. Allen. 269. Activated Sludge Experimental Work at Milwaukee.*

A

- His Organization—Cost; L. H. Allen. 269.
 Activated Sludge Experimental Work at Milwaukee.* 491.
 Activated Sludge Plant at Edmonton.* 265.
 Activated Sludge Process at Regina—Notes on Experiments with*; J. R. Ellis. 124.
 Acworth's Views, Mr.† 489.
 Adams, F. D.; Work of the Advisory Council for Scientific and Industrial Research in Canada. 234.
 Adams, H.; Pile-Driving and the Supporting Power of Piles. 192.
 Adams, T.; Good Roads and Land Development. 370.
 After-the-War Problems.† 93.
 Agriculture and the Engineer. 227.
 Akers, Harry G.§
 Alberta and Saskatchewan—Water Powers of Manitoba.† 137.
 Alignments and Grades in Existing Highways—Correction of; A. Fraser. 347.
 Allen, L. H.; Cost Accounting for the Contractor and its Relation to His Organization. 269.
 Angus, Prof. Robert W.;
 Angus, R. W.; Duty Trials on Pumping Engines at John Street Station, Toronto.* 522.
 Aqueduct Commission—Montreal. 115.
 Aqueduct Commission—Montreal. 115.
 Aqueduct Report-Montreal. 425.
 Aqueduct Report-Montreal. 425.
 Aqueduct Report-Montreal. 427.
 Aqueduct Report-Montreal. 427.
 Aqueduct Report-Montreal. 427.
 Aqueduct Report-Montreal. 427.
 Aqueduct Report-Montreal. 428.
 Aqueduct Report-Montreal. 429.
 Aqueduct Report-Montreal. 429.
 Aqueduct Report on Enlargement of Montreal.* 451.
 Archibald, E. M.; Pneumatic Caisson Work on the Petitcoiac River Bidge Piers. 186. 201.

- Archibald, E. M.; Pneumatic Caisson Work on the Petitcodiac River Bidge Piers. 186, 201. Architecture and the Grand Stand*; C. V. Johnson.
- Architecture and the Grand Stand , 60. 60. Areas—Charts for Eccentric Loading on Rectangu-lar*: S. M. Cotten. 239. Armstrong, Lieut. J. D.§ Asphalt—Mechanical Handling of.† 407. Asphalt—Mechanical Handling of.† 407. Asphalt Pavements—Sheet*; T. L. Crossley. 169. Asphalt Pavement—Stone-Filled Sheet*; C. A. Mul-len. 144. Armshalt—Stone-Filled Sheet**; C. A. Mullen. 364.

- len. 144. Asphalt—Stone-Filled Sheet**; C. A. Mullen. 364. Asphalt—Stone-Filled Sheet**; T. L. Crossley. 220.

R

- Badgley, S. R.§ Ballour, James.§ Balzola, Antoine.§ Barbour, F. A.; Leakage from Pipe Joints. 238. Barnes, Alfred S. L.‡ Bates, Dr. John S.; Chemistry in Canadian Woods.* 540.

- 540, Batho, Alfred.§ Beatry, D. J.‡ Beckett, Lieut.-Col. Stanley G.§ Bell, Richard.§ Bell, R. T.; Road Construction at Camp Borden.* 62. Ber, R. T.; Road Construction at Camp Borden.*
 Biderse-Dust Preventatives and Bituminous*; G. C. Parker. 291.
 Binnie, Sir Alexander R.§
 Bituminous Macadam Roads; W. D. Sohier. 333.
 Bituminous Sand-Grout Pavement. 7
 Bituminous Sand-Bituminous Pavement. 7
 Bituminous Pa

- Elementary Mechanics for Engineers, Clifford Newton Mills, reviewed by Prof. Robert W. Angus 363.
 Elements of Hydraulics, S. F. Slocum, reviewed by Wills Chipman. 363.
 Elements of Refrigeration, Arthur M. Greene, Jr., reviewed by Harry H. Angus. 176.
 Engineering Applications of Higher Mathematics, Part V., Electrical Engineering, V. Karapetoff, reviewed by H. W. Price. 178.
 English and Engineering, Prof. Frank Aydelotte, reviewed by R. D. Wynne-Roberts. 460.
 Examples in Battery Engineering Standpoint, F. W. Lanchester, reviewed by J. H. Parkin. 460.

- 460.
 Hydro-Electric Power, Vol. I., Hydraulic Development and Equipment, Lamar Lyndon, reviewed by Arthur Surveyer. 278.
 Hydro-Electric Power, Vol. II. Electrical Equipment and Transmission, Lamar Lyndon, reviewed by H. D. Johnston. 90.
 Instructions to Locating Engineers and Field Parties, F. Lavis, reviewed by Jas. H. Kennedy. 461.

- 461.
 Lubricating Engineer's Handbook, John Rome Bat-tle, reviewed by C. I. Grierson. 462.
 Manual of Field Astronomy, Andrew H. Holt, reviewed by Prof. Louis B. Stewart. 177.
 Manual of Reinforced Concrete, Marsh and Dunn, reviewed by Peter Gillespie. 461.
 Manufacturing Costs and Accounts, Hamilton Church, reviewed by H. W. Cowan. 361.
 Mechanical Equipment of Buildings, Vol. I. Heat-ing and Ventilating, Louis Allen Harding and Arthur Cutts Willard, reviewed by Harry H. Angus. 90.

- Church, reviewed by H. W. Cowan. 361.
 Mechanical Equipment of Buildings, Vol. I. Heating and Ventilating, Louis Allen Harding and Arthur Cutts Willard, reviewed by Harry H. Angus. 90.
 Practical Oil Geology, Dorsey Hager, reviewed by B. B. Tyrrell. 279.
 Practical Sanitation, Dr. George Reid, reviewed by R. O. Wynne-Roberts. 279.
 Preliminary Mathematics, Prof. F. E. Austin, reviewed by Alfred S. L. Barnes. 462.
 Railway Estimates, Design, Quantities and Costs, F. Lavis, reviewed by G. J. L. Boyd. 545.
 Standard Methods for the Examination of Water and Sewage, American Public Health Association, reviewed by Joseph Race. 361.
 Spork Electrical Pocket-Book, Walter H. Molesworth, reviewed by B. E. Fernow. 545.
 Underground Transmission and Distribution for Electric Light and Power, E. B. Meyer, reviewed by J. J. Beatty, 176.
 Wharves and Piers: Their Design, Construction and Equipment, Carleton Greene, reviewed by J. U. Beatty, 176.
 Winter Track Work, E. R. Lewis. 176.
 Bowring, Lieut, Chas. T.S. Boyd, G. J. L. Boerts, 28.
 Boyd, G. J. L.?
 Branch Reports, Can. Soc. C.E. 99.
 Brade, H. E.; Best Practice in Concrete Road Construction. 209.
 Bridge and Culvers—Highway; W. G. Yorston, 331.
 Bridge, Calgary, Alberta-Centre Street*; G. W. Criag and J. F. Greene, 139.
 Bridge, Calgary, Alberta-Centre Street*; 80.
 Bridge, Saskatoon-University*; C. J. Yorath. 1.
 Brown, A. C.; Halifax Ocean Terminals.* 305.
 Brown, A. C.; Halifax Ocean Terminals.* 305.
 Bridge, Saskatoon-University*; C. J. Yorath. 1.
 Brown, A. C.; Halifax Ocean Terminals.* 305.
 Brown, A. C.; Halifax Ocean Terminals.* 305.
 Brown, M. Y.; Freezing of Water in Subaqueous Services Laid on Land. 25.
 Bridge, Saskatoon-Un

*Illustrated. **Letter to the Editor. †Editorial. ‡Author of Book Review. \$Obituary

Burr, E. G.; Street Railway Negative Return Sys-tem for the Mitigation of Electrolysis. 503.

C

Caisson Work on the Petitcodiae River Bridge Piers —Pneumatic; E. M. Archibald. 186, 201. Calgary, Alberta—Centre Street Bridge*; G. W. Craig and J. F. Greene. 139. Cameron, C. S.; Drainage Problems in Saskatche-wan.* 409. Cameron, J. D.§ Cameron, W. G.; Some Costs of Sewer Work.* 367. Campbell, W. B.; Use of Gas at the Front. 132. Camp Borden—Road Construction at*; R. T. Bell. 62.

- 62
- Canada Cement Company. 140 CN. (March 8th). Canada's Railway Problem-See "Railway Pro-blem."
- blem."
 Canadian Society of Civil Engineers, Calgary Branch. 22.
 Canadian Society of Civil Engineers, Kaniway Flor-Branch. 22.
 Canadian Society of Civil Engineers, Manitoba Branch. 63.
 Canadian Society of Civil Engineers, Manitoba Branch. 100 CN (Feb. 22nd).
 Canadian Society of Civil Engineers. 105.
 Canadian Society of Civil Engineers, Toronto Branch Meeting. 108 CN (Feb. 22nd).
 Canadian Society of Civil Engineers.—T. R. Deacon Addresses Manitoba Branch. 157.
 Canadian Society of Civil Engineers.—New Secretary of the.* 222.
 Canadian Society of Civil Engineers., Toronto

Canadian Society of Civil Engineers—New Secretary of the* 222.
Canadian Society of Civil Engineers, Toronto Branch. 225.
Canadian Society of Civil Engineers.—W. F. Tye Addresses Ottawa Branch of. 312.
Canadian Society of Civil Engineers in the Maritime Provinces.† 509.
Can. Soc. C.E. Branch Reports. 99.
Can. Soc. C.E. W. J. Francis Addresses Saskatchewan Branch of. 448.
Canals.—Traffic Through Canada's. 487.
Cappelin, F. W.; Troubles in Constructing a 48-inch Submerged Main.* 471.
Carnegie, Col. D.; Manufacture of Munitions and the Permanent Assets to Canadian Industry Resulting Therefrom. 397.
Catch Basins—Construction and Maintenance of.* 266.

Catch Basins—Construction and Maintenance of.* 266.
Cedars Rapids Manufacturing and Power Company —Hydro-Electric Power Plant of the; H. Holgate. 146.
Cedars Rapids Manufacturing and Power Co. at Cedars, P.Q.—Hydro-Electric Power Plant of the*; J. C. Smith. 211.
Cement—Also see "Concrete."
Cement Joints for Cast Iron Mains*; C. H. Shaw. 437.
Census for 1917—Industrial ± 365.

437. Census for 1917—Industrial.† 365. Centre of Gravity and Moment of Inertia—Graphic Method of Determining*; H. B. Wrigley. 54. Chamberlin's Statement, Mr.† 449. Cheaper Engineer—Wanted a.† 281. Chemistry in Engineering.† 343. Chemistry in Canadian Woods*; Dr. John S. Bates. 540.

Chiemistry in Canadian Woods*; Dr. John S. Bates. 540.
Chicago By-Law for Flat Slabs—Analysis of*;
W. W. Pearse, 50.
Chipman, Willis.‡
Chlorine Cell Installation—Montreal Water & Power Company's; F. H. Pitcher, 456.
Chlorine Cell Installation—Montreal Water & Power Company's.* 521.
Chlorine—Comparative Cost of Sterilization by Hypochlorite and Liquid.† 366.
City Engineer—How Kitchener Fired its. 497.
Civic Work Open to Contract—Estimate vs. Tender on; 4 43.
Collingwood Pumping Station*; E. J. Stapleton. 443.

Collingwood Pumping Station*; E. J. Stapleton. 443.
Colorimetric Test for Organic Impurities in Sand. 273.
Column Supports in a Floor Test of International Hall, Chicago-Slab Deflection and Subsidence of*; Fenry T. Eddy. 11.