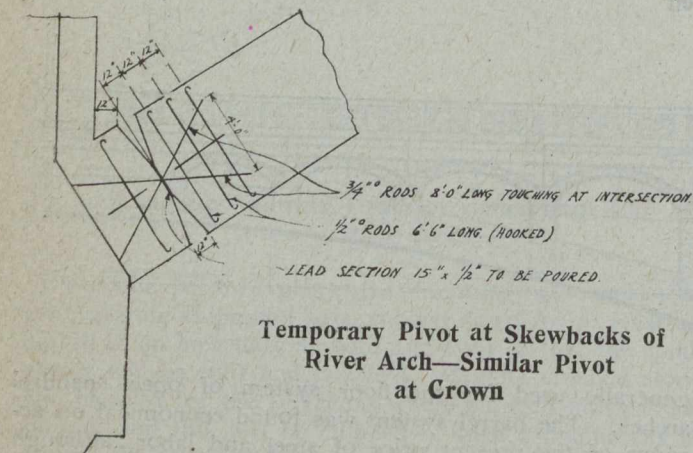


Another departure in the construction of the bridge will be the adoption of the Heath-Edwards or surface area method of proportioning concrete, as described in the July 4th and July 11th, 1918, issues of *The Canadian Engineer*. The specifications for the bridge require that the quantity of the cement in relation to the aggregates should be proportioned by this method. After tests by the engineers, the contractor will be given written instructions as to the



Temporary Pivot at Skewbacks of
River Arch—Similar Pivot
at Crown

proportioning, in order to obtain the required strengths with the minimum amount of cement. This method of proportioning fits in well with another clause in the specifications, stating that the contractor must furnish the cement but that he will be paid a certain fixed price for every barrel used, proof of its use to be furnished. In this way the contractor is not allowed to use too much cement, and on the other hand, he would gain absolutely nothing by "skimping the job," as he is paid only for what he uses.

The committee of the Peterborough City Council in charge of the construction of the bridge, consists of R. H. Parsons, city Engineer; Archibald Weir, chairman of the Board of Works; G. H. Duncan, mayor; and Malcolm McIntyre. Associated with Mr. Barber, as chief assistants on design, were W. E. Taylor and Fred Christie.

The Quebec Telegraph urges an early resumption of public work on the St. Charles River, alleging that the work already done is disintegrating because it was not completed.

Last week the first street car passed over the full length of the new Bloor Street Viaduct, Toronto. The ballasting of the track is proceeding rapidly and the line will soon be ready for regular operation.

The Board of Works of the Stratford, Ont., council has petitioned the military authorities for an early release of Lt. A. B. Manson, city engineer, as the city desires to proceed with some necessary engineering work.

Judgment in favor of the J. H. Tremblay Co., Limited, for \$22,894.34 has been delivered in a suit instituted by that firm against the Greater Winnipeg Water District. The Tremblay interests were awarded the contract to build two sections of the water line project, and had completed one section of it when engineers discovered cracks in the concrete. Judge Curran, in awarding the contractors the money claimed, averred that the cracking was due to natural causes and that the Tremblay interests could not be held liable for it.

Among the speakers on the programme of the third Annual Conference of the South-West Ontario Town Planning Board, to be held next Monday and Tuesday in the Royal Connaught Assembly Hall, Hamilton, Ont., are Thomas Adams, of Ottawa, on "Proposed New Legislation," and also on "Town Planning in Relation to Housing and Land Taxation"; J. J. Mackay, C.E., of Hamilton, who is general secretary of the board; Prof. C. B. Sissons, Toronto, on "Housing, Urban and Rural"; and Nolan Cauchon, Ottawa, on "New Legislation."

A.I.E.E. MEETING AT TORONTO

TORONTO was visited last week by a number of leading American electrical engineers who came to Canada to attend the 344th meeting of the American Institute of Electrical Engineers. It was the first meeting of the whole Institute ever held in this country. Unfortunately the president, C. A. Adams, of Boston, was unable to attend, but the general secretary, F. L. Hutchinson, of New York, and other members of the executive were present.

The program as printed in last week's issue of *The Canadian Engineer* was closely followed, papers being delivered by Messrs. Hall, Gordon and Svenningson.

Among the visiting engineers were the following:—

T. A. Worcester, Schenectady; F. T. Kaelin, Montreal; S. Svenningson, Montreal; F. L. Hutchinson, New York; C. C. Egbat Niagara Falls; W. N. Onken, New York; G. Jinguji, New York; W. H. Winter, Montreal; G. R. Metcalfe, New York; W. H. Reynolds, Erie; E. W. Henderson, Kingston; T. E. Crossman, New York; H. Murray, Hamilton; C. Ekstrand, New York; J. D. Montgomery, New York; H. Alexander, New York; P. H. Chase, Philadelphia; B. J. Crahan, Port Huron; H. U. Hart, Hamilton; L. B. Chubbuck, Hamilton; C. W. Baker, Hamilton; C. A. Price, Hamilton; W. F. McLaren, Hamilton; H. B. Dwight, Hamilton; H. R. Summerhayes, Schenectady; W. S. Moody, Pittsfield; W. J. Wooldridge, Pittsfield; L. D. W. Magie, Peterboro; V. S. Foster, Peterboro; F. C. Hanker, Pittsburg; R. M. Dewhurst, Hamilton; E. Strasburger, Hamilton; R. W. Osborne, Hamilton; G. A. Yates, Hamilton; J. S. Lotimer, Hamilton; D. Nakahara, Yawatashi, Japan; S. Sakai, Osaka, Japan; R. H. Balfour, Montreal; Dr. Clayton H. Shifro, New York; W. T. Goddard, Hamilton; T. H. Barnard, Hamilton; C. W. Kent, Bridgeburg; R. F. Howard, Ottawa; N. S. Braden, Hamilton; E. I. Sifton, Hamilton; W. H. Childs, Hamilton; and F. T. Wyman, St. Catharines.

The total registration at the meeting Friday afternoon was 150, while a larger number heard Mr. Svenningson's paper in the evening at the University of Toronto. At the dinner held at the Engineers' Club, 143 members, delegates and guests were at the tables. There was just one after-dinner speech,—by Sir Robert Falconer, president of the University of Toronto.

CHANGES AT MONTREAL

ANNOUNCEMENT has been made that Paul E. Mercier, chief engineer of the public works department of the city of Montreal, will hereafter be consulting engineer to that city, and that Capt. Arthur E. Doucet will be acting director of public works.

Capt. Doucet was formerly a district engineer of the Transcontinental Railway. In 1915 he went into private practice, and in July of this year he was appointed as an advisor to the Montreal city commissioners.

The commissioners also appointed Charles Garrett as an engineering and contracting advisor last July. Now Mr. Garrett has tendered his resignation and it has been accepted, the commissioners stating that the work which Mr. Garrett had been asked to do has been completed.

Mr. Mercier has been chief engineer of Montreal since May, 1914, and since last July has also been Director of Public Works. He was formerly in consulting practice in that city.