The Canadian Architect and Builder

VOL. XVII.-No. 203.

ILLUSTRATIONS ON SHEETS.

First Christian Church, Bathurst Street, Toronto.—S. H. Townsend, R. C. A., Architects. Palace Pompei Verona—Measured and Drawn by Cecil A. Burgess. A.

ADDITIONAL ILLUSTRATIONS IN ARCHITECTS' EDITION.

Views of St. James Cathedral, Toronto-Cumberland & Storm, Architects. Design for New Post Office Building at Winnipeg-Darling, Pearson & Over, Architects.

CONTENTS

Editorial 177-178	Toronto Architectural Eighteen Club 188
	Committee a Retaining Wall
Some Notes on the Question of Fireproof Construction - 179	Suggestions from New Zealand on Theatre Planning - 189
Students' Competition 180	Suggestions from New Zealand on Themas - 190
Cost of Ventilation 180	A Carpenter's Epitaph
ost of Ventuation	Northwest Notes 191
ictures without Benses	
Our Illustrations :81	Dynamite in Great Fires
The Modern American House in the Architectural Record 181-182	Built all in a Day
Cost Plus a Fixed Sum Contracts 183	Winnipeg's Building Record ix
Cost I lus a I lacu buil Contracto	Business Notes ix
By the Way 184	Business Notes
Camera in Sculpture 184	Kryptol—A New Substance for Electric Freduits
An Optical Illusion 184	A Smoke Consuming Device
Montreal Notes 185	Personal xiv
	* Cradital
Addresses at the Opening Meeting of the Architectural	
Association 186-187	

SPECIAL CONTRIBUTORS.

Mr. W. A. LANGTON, Architect, Toronto. "EDMUND BURKE," Toronto. MR. W. A. LANGTON, Architect, Toronto.

EDMUND BURKE, "Toronto.

S. H. TOWNSEND, "

Prof. Percy E. Nobbs, Montreal.

FREDERICK G. TODD, Landscape Architect, Montreal

W. H. ELLIOTT, Toronto.

A. F. DUNLOP, R.C.A., Architect, Montreal.

FRED. T. HODGSON, Architect, Collingwood, Ont.

The Duty on Architectural Plans.

The Ontario Association of Architects are endeavoring to have changed the present customs

regulation fixing the amount of duty to be paid on plans brought in from other countries. Until a few Years ago, duty was charged not, as at present, on the value of the plans only, but on the total value of the completed building erected from the plans. In some way the regulation was changed so that duty has to be paid on the value of the plans only. The regulation in its present form is felt to be unfair to Canadian architects, and an effort will be made to induce the Government to revert to the former regulation.

Perfection in municipal arrange-Power From Refuse. ments is to be found in Great Britain rather than on this side of the Atlantic. They have crowded cities over there that must be well run if they are to be run at all to suit the English taste for having things in good order. It would do us good to cultivate the same taste and, even at some little cost, to qualify the prevailing shabbiness of our towns. But it is not cost so much as economy that would result from a study of English municipal methods. Administration is the forte of the English and they are making their municipal works pay in many ways. In the matter of refuse destructors, there are said to be one hundred now in operation which supply Power for electrical purposes, sewage pumping or water pumping, equivalent to the use annually of 150,000 tons of the best steam coal. An average

annual saving of 1500 tons of coal wherever one of these destructors is used must offset the working cost considerably, but there is another point worth considering-that combined works of this kind are better worth having than works where the power is not utilized, inasmuch as the high temperatures which are essential for satisfactory power production are at the same time a guarantee against nuisance.

Concrete Piles

For wet and dry conditions in a piled foundation concrete piles have recently been used success-

fully as reported in the Engineering Record, in building the Dittman factory, on the canal in Cincinnati, Ohio. The piles ranged from 8 to 22 ft. in length. They were square in cross-section, with a 2 in. bevel on the edges, and tapered 2 inches in 16 feet; being 10 in. square at the point end and 14 in. at the upper end of a 16 ft. length. The piles were reinforced with 3/4 in. twisted bars, one in each corner, and these were bound together with 1/4 in. hoops, 12 in. apart on centres. These bars turned in at the bottom into a cast iron shoe weighing 50% lb. As it was desired to drive them as soon as possible after being made, a 1:2:4 mix was used. The piles were aged at least four weeks before being driven. In order to keep the top of the pile from fracture a special cap was used, which was stuffed with rubber from old hose. The hammer used was two tons, and the drop averaged from 4 to 6 ft. Higher drops were used but the record was against them. The cost of the piles is only stated as "considerably more than the cost of