



IN a previous advertisement in "Construction" we went into the question of low-cost construction in NIAGARA SYSTEM of Reinforced Concrete. In this number we wish to give particular attention to the SIMPLICITY, and what we call the "ELASTICITY OF APPLICATION" of the NIAGARA BAR to the problems of construction in concrete.

¶ Under the "Niagara System" the shear members may be attached to any form of plain or deformed tension bar now on the market with only slight variation in the shape and size of the clip such as "Ransome," "Johnson," "Thacher," "Twisted Lug," or "Kahn Cup," bars, making the simplest method of attaching stirrups which it is possible to devise, and increasing the efficiency of any one of these bars.

¶ We have a preference for COMMERCIAL PLAIN BARS under ordinary condition, usually in squares and flats, and have found that the results are satisfactory in actual practice. Beyond this broad nature and simplicity of attachment of shear members to many types of tension bars is the important point of the varying length of the shear members, which at all times may be sufficiently long to enable homogeneous action in the stem and tee of a T beam.

¶ The T beam is the type most important and most used in concrete, and the reinforcement against shear should in all cases extend up into the floor slab. In our design of the Niagara Bar we use three quarters of an inch as the standard dimension in width, thereby making it possible, at all times to design in economical sizes of beams. Increase of steel area is made by increasing in depth of bar, in accordance with the logical development of a beam for heavy loading.

¶ We have the most ECONOMICAL reinforcing bar on the market. The NIAGARA BAR is of the HIGHEST EFFICIENCY. Our EXPERIENCE and SERVICE is at your command.

PITT & ROBINSON

Architects and Engineers

IMPERIAL BANK CHAMBERS

NIAGARA FALLS, = = CANADA.