

Highways Laboratory.

Good facilities are provided for experimental work on the problems of highway engineering, but comparatively few students, as yet, have taken the municipal option in the fourth year course in civil engineering, and none have proceeded to the Master's Degree in the subject of highways.

NUMBERS OF STUDENTS AND LIMITATIONS IN WORK.

The numbers of students taking graduate work are limited. Each student in structural work requires the use of a testing machine for extended periods, and his work must be fitted in with that done in undergraduate courses in which the same machines are used. In the tests, he is occupied with making the observations, and not infrequently requires a laboratory assistant to operate the machine. Probably not more than two or three such students can be accommodated at one time.

Similar restrictions apply to work in hydraulics. It is indeed sometimes difficult to arrange a suitable research in hydraulics for a single student on account of the necessity of taking several simultaneous observations, as this may require greater assistance than can be given by the laboratory staff.

A thesis dealing in critical manner with alternative proposals for an engineering project of considerable magnitude, or with some special phase of engineering work requiring original power of analysis, may be submitted in place of a laboratory research, but this course is not usual.