

magnificent specimen of modern work may be mentioned the embankment from Westminster bridge towards London bridge, along the northern bank of the same river.

DRAINAGE OF LOW LANDS.

The drainage of low lands presents, not only on account of the rich soil which is usually thus acquired, but of the improved health gained for the entire vicinity, another field for Engineering and Engineers, the value of which will increasingly be felt in Canada.

WATER FOR IRRIGATION AND GENERAL USES.

In connection with drainage, our thoughts naturally turn to the supply of water for irrigation, and for the general uses of man. We trace the progress of this branch of Engineering in the simple contrivance of the pole and bucket, still to be seen in daily use in many parts of the world; in the adoption of the principle into most countries, and its extension by the use of animal power; in the land "watered by the foot;" in the narrow channels along which the fertilizing water was led as it is led to the present day; in those canals of which we have already spoken; in those vast reservoirs in India which count their embankments by thousands of miles, and their works of art by the hundred thousands; on which vast territories depend at times for their very existence, and which Australia, if she intends to grow in prosperity as she should do, must in some measure imitate. We have it in another form at Jerusalem, and find it's witness in the ruins lately explored there; in the ancient Alexandria; in those superb Roman aqueducts and other works, the very remains of which are magnificent; in such works as those which supply busy Glasgow, by gravitation, with the purest of water from the distant shores of lovely Loch Katrine, or as supply, on this continent, the young giant city Chicago; or—and we are glad to note the exception to the general gloom and decay which have settled on