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SEWERAGE.

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Going back somewhat in the more natural order of my subject I propose to make a few remarks on the

CONSTRUCTION OF DRAINS.

And first of all it will be necessary to the completeness of a paper on this subject to say something of the

1. MATERIALS of which they may be constructed. *Tiles* answer well up to a diameter of 18 inches. Of these, the glazed pipes are best adapted to prevent soakage. It will be necessary to see that they are not too porous, that they are strong, tough, and true-fitting. Their porosity may be tested by weighing them when thoroughly kiln dried and again when soaked in water, and noting the difference in weight. Their strength is generally tested by putting them under a weighted lever, arranged like the arm which carries the weight of a safety valve. They should be true-fitting, for any defect in contour will affect the formation of the joints and give rise to leakage.

Iron pipes. If it be intended to use pipes of a larger