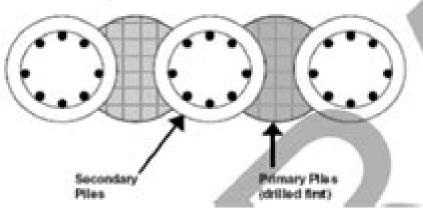
# 3.1 Pile/Special Foundations

Special foundations are divided into shallow and deep foundations, with pile foundations belonging to the latter group. Deep foundations are used to transfer the load to deeper soil or rock of high bearing capacity deeper below the surface. Pile foundations consist of a pile cap that arranges and distributes the applied load to the group of piles beneath, which in return transfers this load to the ground. Pile construction is comprised of three main steps: drilling, placing reinforcement and concreting [4].

Secant wall piles are formed by constructing intersecting concrete piles, as shown in Fig. 2, where primary piles are installed first with secondary piles constructed in between primary piles, once the latter gain sufficient strength. The anchors are placed only on the primary piles because they are unreinforced.



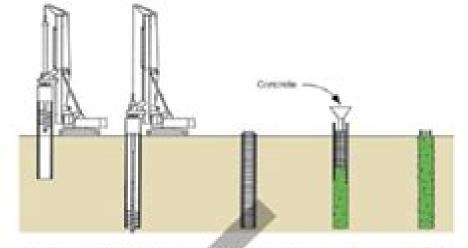


Figure 3. Standard pile construction process [4].

As depicted in Fig. 3, the top of the pile may be capped with a footing or pier near ground level to support the structure above. Pile construction is a highly specialized operation requiring extensive knowledge and experience of bored pile construction and engineering as well as soil and site conditions [4].

## 3.2 4D BIM Modelling

In foundation engineering, the modelling start with an environmental model, including geologica and topographical conditions, surrounding special building structures, underground pipelines and nearby building foundations [6]. Based on the environmental model, a 3D solid model of the foundation supporting system is established. The biggest difference of foundation projects from

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