

Controlled Density Fill Provides Form for Concrete Foundation

One task of the construction team at the James River secondary fiber facility in Halsey, Oregon, was to construct a building on top of 760 piles and incorporate trenches and drains beneath the floor slab where depths varied from 2 to 8 feet. No forming materials were to be left beneath the floor. A unique method of conventionally placed controlled density fill to construct a reverse forming system for the pile caps, grade beams, trenches and the structural floor system was used. This approach allowed the project to be done on time and within budget. The controlled density fill is a low strength (500 psi) concrete made with a low cost, waste ash aggregate. Soon after placing the fill, cutouts were excavated to create forms for grade beams, trenches and drains. Rebar was placed in the forms and structural concrete was cast which saved on carpentry work.

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