

ABSTRACT

In a joint configuration where a primary-beam and top flanges of secondary-beams are joined via a concrete floor-slab, workability is improved while a sufficient concrete cover thickness of the floor-slab is maintained. The joint configuration includes: a primary-beam having an H-shaped-cross-section; first and second secondary-beams each having an H-shaped-cross-section, each extending in a direction intersecting the primary-beam, and having respective ends facing each other with the primary-beam interposed therebetween; and first and second joint-members joining webs of the first and second secondary-beams to the primary-beam. A concrete floor slab is constructed over the primary-beam and the first and second secondary-beams, and top flanges of the first and second secondary-beams are joined to the concrete floor-slab and are not directly joined to the primary-beam and the first and second joint-members. A reinforcing rebar embedded in concrete of the concrete floor-slab is disposed without extending over both the first and second secondary-beams.

FIG. 1