

### **Development of Partially Reinforcing Method for Prestressed Concrete Girders**

Ken WATANABE      Shuntaro TODOROKI      Shinichi HORI      Yukihiro TANIMURA

The corrosion of tendons will drastically change the mechanical performance of the PC beam and reduce the serviceability and the safety of the structure. If the grout is existed inside the sheath, the stress will be transmitted from tendons to concrete because the bond exists between tendons and grout after the tendons broken by corrosion. This study developed a partial reinforcement method of PC beam by attached steel plates to its bottom surface by using bottom wide type anchor bolts. This construction method has advantages, such as simple enough reinforcement in limited space. The effect of the method was verified by the experiment using full scale PC beams.