

**การตรวจสอบและวิเคราะห์แรงดึงใน Tendon ของโครงสร้าง Segmental Box Girder  
โครงการ Airport Rail Link รายงานฉบับสมบูรณ์**

The first phase of Airport rail link was constructed in 2002, in the mean time, there was an existing problem of installing segmental concrete boxes as a result of crack and chap of the boxes. For the reason, structural damage assessment was conducted to diagnose causes as well as possible impacts on strength and durability of the structure. Researchers used dynamic test on the basis of standard assessment to evaluate dynamics properties and tension of tendon on structure of segmental box girder. Vibration method and sensitivity-based finite element updating was utilized to analyze and compare the tension of tendon between the structure of Span No. P.-078R and Span No. P-078L.

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