Objectives:
The construction of the bridge combined with laboratory testing, will demonstrate the feasibility using GFRP bars with internally post-tensioned CFRP tendons.

Background:
FRP composite materials are currently applied to existing construction. An area of primary interest is bridge decks where deflection control and shear capacity are of primary importance.

Benefits:
Combination of post-tensioned and unstressed reinforcement increased the ultimate flexural and shear strengths as well as performance under serviceability load conditions.