

Monash Green Bridge



When Goodwin Aged Care Services planned a bridge as part of their new Monash Green development, the architects looked for a solution that would provide great visual appeal and maintain the high quality finish of stage one (the village has previously won Housing Industry Association Awards for its special purpose housing).

They had originally planned to connect the first and second stages of the village with a rammed earth bridge but decided to use a precast arch structure instead, recognising that the arch was an ideal crossing solution for the waterway, providing fantastic aesthetic value with a quality architectural sandstone finish.

The original concept design included a triple cell arch structure, but after consultation, the precast manufacturer, Humes, was able to design a twin cell arch structure which still met the 100 year flood design, but reduced the overall cost of the bridge and minimised construction time. The arches were pre-fabricated which meant they could be quickly installed without being subject to weather constraints.

The spandrel and wing walls are an earth retaining system which is ideal for architectural decorative concrete finishes. The precaster's in-house engineers modified the design of the wing walls and spandrels to enable sandstone to be clad on the faces of the southern elevation. A stonemason (engaged by the developer) used random pieces of sandstone to create the finished look. A black oxide concrete finish was used on the northern facing end treatments.

Project Owner

Goodwin Aged Care Services

Architect and Project Superintendent

Group One

Service Engineer

Cardno Young

Precast manufacturer

Humes

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