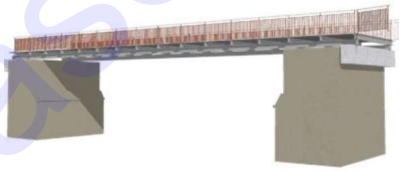
ATTACHMENT 1: SUMMARY OF CONCEPT OPTIONS

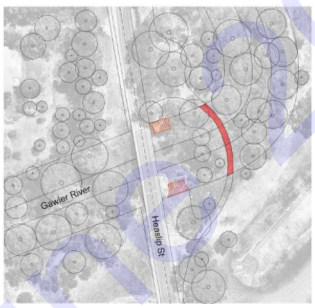
Option 1 New timber arch bridge in original location	**Estimated construction cost:** $3M+
 	• Highest cost replacement option • Requires additional detailed structural investigation into the existing abutments to determine cost and feasibility • Small portion of the original timber could be reused • Requires heritage approvals / protection of abutments • Minor impacts to native vegetation • Unable to view remaining heritage elements • Low impact to road traffic during construction
Option 2 New steel arch bridge in original location	**Estimated construction cost:** $2.5M - $3M
 	• Second highest cost replacement option • Requires additional detailed structural investigation into the existing abutments to determine cost and feasibility • Requires heritage approvals / protection of abutments • Minor impacts to native vegetation • Unable to view remaining heritage elements • Bridge colour and deck options available • Low impact to road traffic during construction
Option 3 Contemporary steel bridge in original location	**Estimated construction cost:** $1.5M - $2M
 	• Medium cost replacement option • Requires additional detailed structural investigation into the existing abutments to determine cost and feasibility • Requires heritage approvals / protection of abutments • Unable to view remaining heritage elements • Minor impacts to native vegetation • Bridge colour and deck options available • Can be prefabricated off site • No impact to road traffic during construction
Option 4 Cantilever from road bridge	**Estimated construction cost:** $1M - $1.5M

 	• Lowest cost replacement option • Requires additional detailed structural investigation into existing road bridge to confirm cost and feasibility • Narrowest option • Road disruption during construction • Good visibility of, but no impact on, the remaining heritage elements • Good opportunity for interpretative elements • May not realise whole of possible design life as the footbridge will be replaced when road bridge is renewed (c.40yrs) • No impact to native vegetation
Option 5 New curved bridge located away from road	**Estimated construction cost:** $1.5M - $2M
 **5A**  **5B**	• Medium cost replacement option • Requires additional detailed investigation into cultural heritage protection of the location to confirm cost and feasibility. Native vegetation impact expected to be high. • Good visibility of, but no impact on, the remaining heritage elements • Colour and deck options • Available with (5B) or without (5A) viewing platform • Good opportunity for interpretative elements • No impact to road traffic during construction • Good pedestrian and cyclist safety away from Heaslip Road • Longest bridge and 'detour' away from pedestrian desire line along Heaslip Road (may reduce use)
Option 6 Do nothing (includes make good site)	**Estimated cost:** $150k-$200k
	• Lowest cost option • Does not provide safe pedestrian access along Heaslip Road • Footbridge has not been available since 2019 with low (but potentially growing) usage demand. • No impact to road traffic during delivery

	• Pedestrians would be catered for in approximately 30-40 years when the road bridge is due for replacement

Existing location

Road bridge cantilever location



Offset location