

## COMPACT ROUNDABOUT CASE STUDY 2

### Merricks Rd/Stanleys Rd intersection, Merricks, Mornington Peninsula Shire

The Shire has recently developed a compact roundabout design to provide a more cost-effective solution to the treatment of this high crash risk intersection at the Merricks Rd/Stanleys Rd intersection. Through designing an overall reduced construction footprint, it also minimizes the impact to roadside vegetation and any need for any expensive utility service relocations. The cost reduction is still significant (although a full comparison has not been completed) with proposed compact roundabout design compared to a conventional design even with the challenge of catering for larger truck turning movements with an acute angled crossroads intersection. Lower costs are achieved by the replacement of reverse curves on all approaches with raised safety platforms but still achieving the necessary travel speed reductions to reduce the likelihood of high severity crashes. Refer to the plans below that compare the proposed compact roundabout design to a conventional (typical) roundabout design at this intersection.



