4 PROTECTED PEDESTRIAN CROSSINGS

Pedestrian crossings not only enhance pedestrian connectivity by providing a safe, legible crossing point, but the build-outs on either side of the crossing also create planting spaces for trees and understorey vegetation. This allows trees to be planted away from the footpath constraints of powerlines and underground services, increasing shade over a larger portion of the road surface.

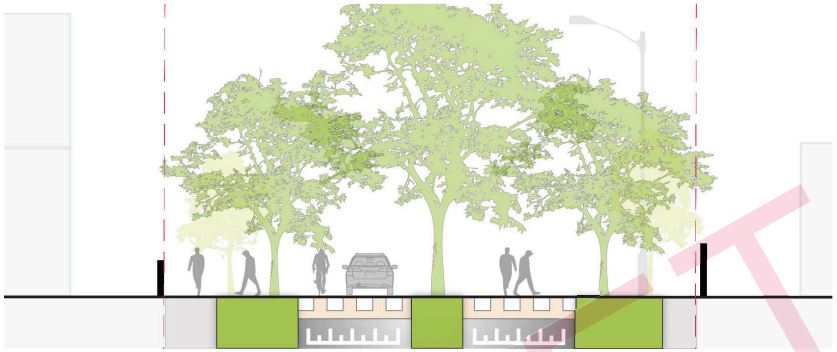
KEY BENEFITS

- Has a traffic calming effect.
- Promotes pedestrian connectivity.
- Provides generous space for tree soil volume.
- Typically, will include opportunities for understorey planting.
- Typically, will not impact footpaths, kerbs and existing service infrastructure.
- Trees are inset to roadway meaning they are less likely to be encumbered by overhead services.
- Promotes safe, legible pedestrian connectivity.

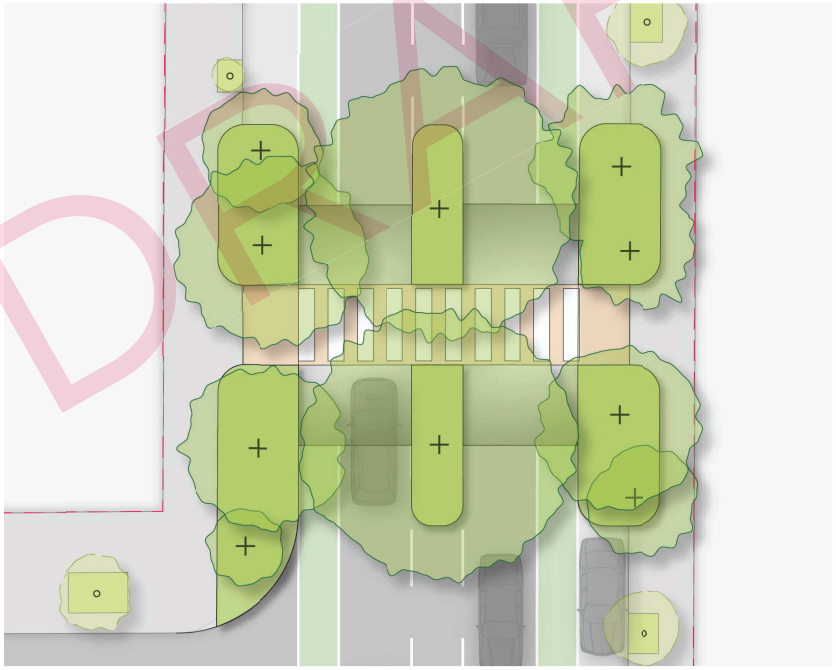


Figure 46: Highlighting all of the streets that are suitable for protected pedestrian crossings.

FUNCTIONAL LAYOUT



STREET SECTION



STREET PLAN

SCALE 1:200 0 5 10m

TECHNICAL AND MAINTENANCE CONSIDERATIONS

- Crossings should be located on pedestrian desire routes, or spaced along emerging retail and activity areas.
- Formative pruning required to establish clear sight lines.
- Depending on the proximity of trees to overhead services a tree species may need to be selected that will tolerate crown pruning at maturity.
- Understorey planting should be a secondary consideration to tree selection and increasing canopy.
- Sightlines will need to be considered as part of tree placement and may impact the number of trees that can be installed.
- Consideration of vehicle turning radius and road widths will need to be made to determine extent of build-outs.
- Irrigation or hand watering required during hot dry periods.
- Suggest low litter-producing species as the trees will directly overhang the road and crossing.
- Large canopy/legacy tree species should be installed where space permits on Connector Boulevards.

ADDITIONAL OPPORTUNITIES TO BE CONSIDERED AS PART OF INTERVENTION

- Integrated water management (IWM) interventions such as passive irrigation, soaker pits and rain gardens.
- Understorey planting that increases and supports site biodiversity.
- Place making initiatives such as outdoor dining and seating.

FINANCIAL & RESOURCE COMMITMENT

$ **TBD** $$$

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EXEMPLAR IMAGERY

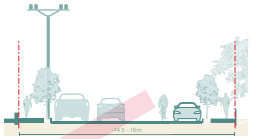
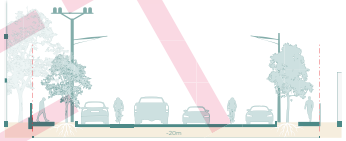


Beenleigh Town Square by LatStudios incorporates pedestrian crossings that produce high-quality landscaping outcomes with place making benefits (Image Credit LatStudios).



A raised crossing with planting areas created in the adjacent build-outs in Sydney (Image Credit NSW Government)

SUITABLE STREET TYPES, TREE SIZE AND FORM GUIDANCE

STREET TYPE	CONFIGURATION	RECOMMENDED TREE SIZE	RECOMMENDED TREE FORM
Typical Street		Medium to Large	Clear trunked, medium canopy spread
Connector Boulevard		Large	Clear trunked, medium to large canopy spread

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