

## 3. Future Transport Environment

### 3.1 Christchurch, Rolleston and Environs Transportation Study

Rolleston Township is developing rapidly and the current residential zoning will enable the township's population to increase to about 14,000 people, with over 5,000<sup>1</sup> households. The township is also expected to accommodate over 2,000 jobs with full development of the Rolleston industrial area.

This expected increase in population means that extensive measures are also required to increase the traffic capacity of the town's road network and connections to the wider strategic road network. A major transportation study titled the Christchurch Rolleston and Environs Transportation Study (CRETS) has been undertaken by Connell Wagner for Transit New Zealand (now part of the NZ Transport Agency – the NZTA), Selwyn District Council, the Christchurch City Council, Environment Canterbury and Christchurch International Airport Limited and developed a strategy to meet the transportation requirements of the transport network to the southwest and the south of Christchurch.

Figure 4 shows the proposed Transport Strategy to address the transport issues through to 2021 for Rolleston that was outlined within the CRETS report. The primary inclusions of the strategy are:

- An inner ring road including Rolleston Drive and its extension from Brookside Road to SH1 west of George Street. This has recently been completed with the construction of the south-western extension of Rolleston Drive to SH1.
- An outer ring road including Weedons Road, Lowes Road, Dunns Crossing Road, Walkers Road, Two Chain Road, Jones Road and Weedons Ross Road with associated road and intersection upgrades.
- Main access to Rolleston from SH1 at Weedons Road via a grade separated interchange.
- Linking of Rolleston Township and the industrial area by replacing the Rolleston Drive and Hoskyns Road traffic signals with a grade separated access across SH1.
- Restriction of local road access onto SH1.
- Access between Rolleston Drive and Tennyson Street via a new link road extension of Byron Street.
- A new Collector Road that runs between Weedons Road and Dunns Crossing Road to the southeast of Lowes Road.

In a wider context, CRETS also identified major strategic projects for the access corridors between Rolleston and Christchurch. These projects included the extension of the southern motorway corridor from Springs Road to the south of Templeton and four laning of SH1 from Templeton to the recommended Rolleston interchange. In addition, an upgraded arterial corridor is recommended from Rolleston to Hornby via Selwyn Road and Shands Road.

In addition to these strategic facilities, the local transport networks will change as Rolleston expands into the areas zoned for residential purposes. A recommended road hierarchy for the network of major roads is contained in the CRETS Final Report and includes changing Dunns Crossing Road to a District Arterial and Collector Road as part of its function as an outer ring road of Rolleston. The road hierarchy included in CRETS is provided in Figure 5.

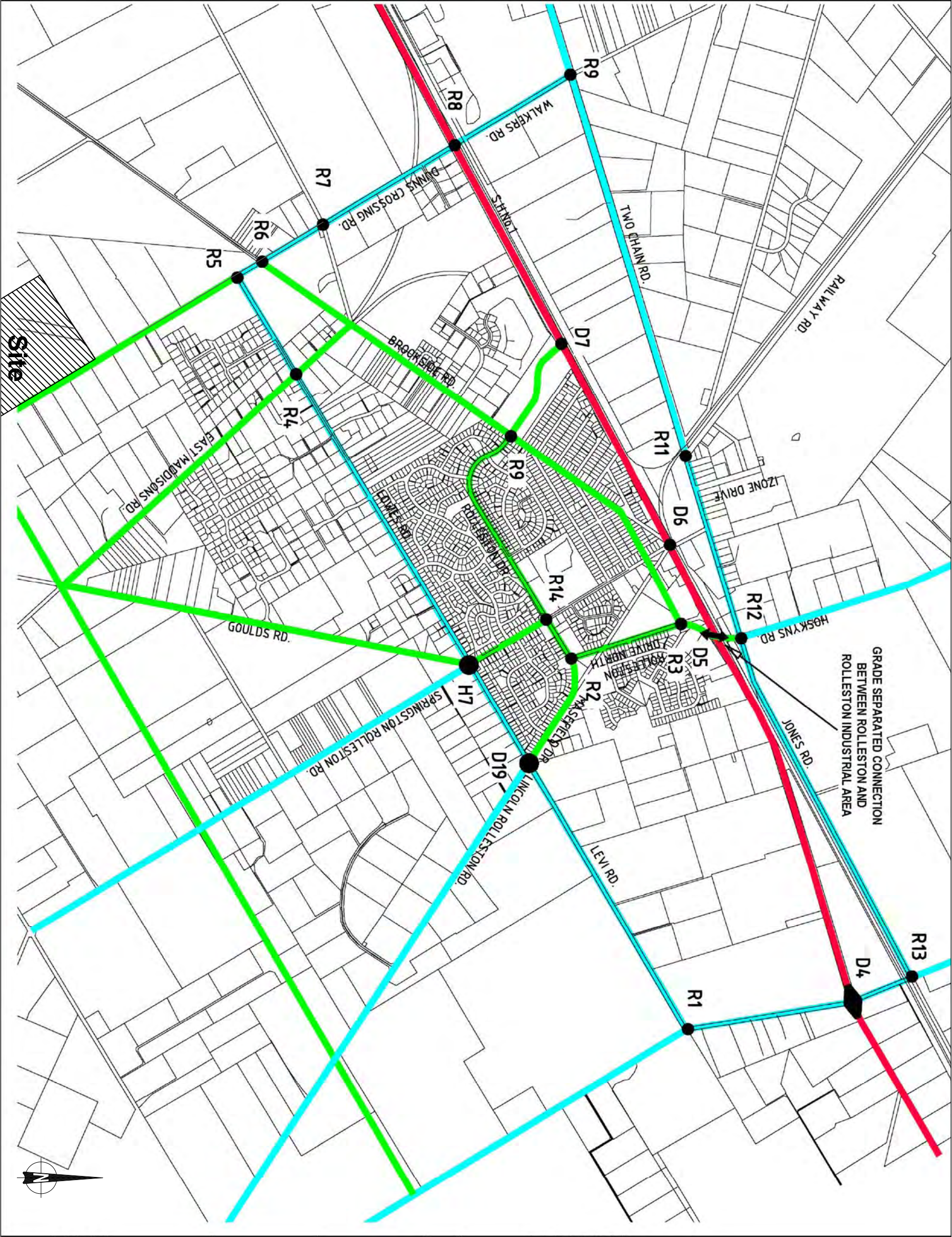
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<sup>1</sup> The Christchurch Rolleston and Environs Transportation Study adopted an expected 5,296 households and 2,107 jobs for Rolleston in 2021.









**LEGEND**

- SIGNALS
- ROUNDABOUT
- INTERCHANGE (GRADE SEPERATED)
- GRADE SEPARATED LINK
- OTHER
- NATIONAL ARTERIAL
- DISTRICT ARTERIAL
- COLLECTOR (DISTRIBUTOR)

**Revision Details**

No.	Date	Revision Details	JRD	By
A	12-06-07	FINAL REPORT		

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**Client:**

Christchurch International Airport

**Project:**

CHRISTCHURCH ROLLESTON AND ENVIRONS TRANSPORTATION STUDY

**Drawing Title:**

TRANSPORT STRATEGY ROLLESTON FINAL REPORT

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REVISION	DATE	DESCRIPTION

SPBL Rural Residential Plan Change

Transport Strategy Rolleston

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Widening of Dunns Crossing Road is recommended within CRETS in combination with reclassification to a District Arterial Road between SH1 and Lowes Road and a Collector Road to the southeast of Lowes Road. The recommended cross-section for the road involves an 8.5m sealed carriageway as indicated by Figure 6.

A further recommendation from CRETS is that public transport services will need to be enhanced by higher service frequencies and provision of park and ride facilities in Rolleston.

## 3.2 Canterbury Transport Regional Implementation Plan

The projects recommended by CRETS have generally been incorporated in the Canterbury Transport Regional Implementation Plan (TRIP), with timeframes proposed based on regional funding prioritisation to assist the ability of the Road Controlling Authorities to secure the necessary funds to implement the strategy. Most of the Rolleston projects are included within a ten year timeframe 2007-2016. Those that are programmed for beyond ten years are the Southern Motorway extension from Springs Road to Templeton, Rolleston Drive grade separated interchange, and four laning of SH1 between Templeton and Rolleston.

Widening of Dunns Crossing Road would be included as part of the “Rolleston Arterial Roading and Intersection Upgrades” projects within TRIP, which are scheduled for construction within a 10 year timeframe. The new Collector Road between Dunns Crossing Road and Weedons Road is not outlined specifically within TRIP.

## 4. Current Traffic Conditions

### 4.1 Daily Traffic Volumes

Daily traffic count information has been provided by the Selwyn District Council and the NZ Transport Agency (NZTA) for SH1. The most recent Annual Average Daily Traffic (AADT) volumes roads in the vicinity of the site are summarised in the following table.

Location	Average Daily Traffic (vpd)	Count Year
Dunns Crossing Road, south of SH1	367	2005
Burnham School Road, west of Dunns Crossing Road	292	2007
Selwyn Road, east of Dunns Crossing Road	150	2008
SH1, east of Weedons Ross Road (northeast of Rolleston)	18,169	2007
SH1, south of Burnham Road (southwest of Rolleston)	10,403	2007
Walkers Road, north of SH1	887	2007

**Table 1 : Daily Traffic Volumes**