

Nelson Schools Variable Speed Limits 2013

Transportation Assessment Report

April 2013

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Nelson Schools Variable Speed Limits 2013

Transportation Assessment Report Quality Assurance Statement

Prepared by:

Chris Pawson

Senior Transportation Engineer

Reviewed by:

Dave Petrie

Senior Associate

Approved for Issue by:

Dave Petrie

Senior Associate

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PO Box 30-721, Lower Hutt 5040 New Zealand

P: +64 4 569 8497

www.tdg.co.nz



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1. Introduction

TDG has been commissioned by Nelson City Council to undertake the investigation and assessment associated with the implementation of variable school speed limits. The following sites were considered during this process:

- St Joseph's School Manuka Street, Collingwood Street and Bronte Street;
- Nelson College for Girls school frontages on Rutherford Street and Trafalgar Street;
- Nelson Intermediate school frontage on Tipahi Street and adjacent section of Motueka Street;
- Nelson College school frontages on Waimea Road, Franklyn Street and Hampden Street;
- Hampden Street School school frontages on Waimea Road, Hampden Street, Van Diemen Street and Ngatiawa Street;
- Victory School extension of the existing school zone to include the Totara Street/ St
 Vincent Street intersection; and
- Tahunanui School extension of existing school zone to include Tahunanui Drive (SH6);

Each of the above locations has been inspected and vehicle speed and pedestrian activity measured in order to assess each against the relevant warrant for school speed zones contained within the NZTA Traffic Note 37 – Revision 2: "40km/h Variable Speed Limits in School Zones Guidelines" document.

By way of summary, activity around each of the above schools during pick-up and drop-off times is at a level that meets the warrant for a reduction in speed limit on the roads listed above, unless otherwise noted. The following report discussed each location in relation to the warrant and any other issues that need to be considered.

2. Schools Assessment

2.1 Saint Joseph's School

It is proposed to establish a 40 km/h school speed zone on Manuka Street, Collingwood Street and Bronte Street to cover each of the school frontages and main access points. Collingwood Street and Manuka Street have been assessed as meeting the warrant due to high pedestrian usage and either high speeds or appropriate traffic calming measures being in place.

Bronte Street does not strictly meet the warrant as, even though there is high pedestrian usage, the vehicle speeds are relatively low and there have been no crashes involving pedestrians. Nevertheless, it is recommended that the section of Bronte Street between Scotland Street and Collingwood Street be included in the school speed zone to retain consistency across the whole school frontage. The proposed layout is shown in Figure 1 of Appendix A.



2.2 Nelson College for Girls

It is proposed to establish a 40km/h school speed zone on each of the road frontages of Nelson College for Girls. Both Rutherford Street and Trafalgar Street South meet the warrant, with large numbers of students crossing the road or entering or leaving vehicles on the roadside, and vehicle speeds being relatively high. In the case of Rutherford Street, its function as a main traffic route also contributes to it meeting the warrant. The proposed signs layout is shown in Figure 2 of Appendix A.

Due to the very close proximity of Hampden Street School and Nelson College, it is necessary that the speed zones be combined. This will result in the speed zone operating times being longer than the guidelines allow and a dispensation from NZTA will be required.

2.3 Nelson Intermediate

Tipahi Street meets the warrant with greater than 50 children crossing or entering or leaving vehicles and has an 85th percentile vehicle speed of S1.5km/h, (ie exceeds 50km/h). The relevant section of Tipahi Street is simple to sign with a reduced speed limit as shown in Figure 3 in Appendix A.

Motueka Street also meets the warrant with large numbers of children crossing at the intersection with Tipahi Street, where the mean of the measured vehicle speeds is greater than 45km/h, and therefore meets the warrant. There are issues with implementing variable school speed limits on Motueka Street, though, as with the minimum length of 300m speed zone, the speed zone will extend all the way to Vanguard Street. This leaves only 150m between this speed zone and the existing Victory School speed zone, which is then not far enough to warrant increasing the speed limit to 50km/h between the zones.

Therefore, the speed zones for Nelson Intermediate and Victory schools will need to be a single zone. This in itself poses a challenge in that the operating times of the schools are different. As a result, the length of time that the school zone operates will need to be extended beyond the constraints set out in the NZTA guidelines and legislation, albeit by a very short period. Approval for this extension will be needed from NZTA.

An alternative option for Motueka Street is to install active school warning signs and/or localised traffic calming measures in order to reduce vehicle speeds. This option would remove the need for the time extension for the previous option but may have less impact on the vehicle speeds on Motueka Street.

Regardless of which of the above options is eventually implemented it is recommended that consideration be given to construction of traffic calming measures and operation of a formal controlled school crossing across Motueka Street close to Tipahi Street.

It is noted that this location in particular is likely to be of interest to the Nelson Police and their comments on the Motueka Street options have been sought.

2.4 Nelson College/Hampden Street School

With Nelson College and Hampden Street School being in such close proximity to each other it is necessary to treat them essentially as a combined site with a single variable



school speed zone. Of the frontage roads, Van Diemen Street, Waimea Road, Ngatiawa Street and Waimea Road all meet the warrant for the school speed zone.

Due to the placement of the school bus stop on Waimea Road to the south of Franklyn Street, the zone is proposed to include the intersection of Waimea Road and Franklyn Street as far as the Ambulance bay on Waimea Road. It is recommended that the full length of Franklyn Street east of Waimea Road also be included due to the large amount of school activity on it. Only one additional fixed sign is needed to implement the school speed zone on the Franklyn section.

Vehicle speeds on Hampden Street east of Waimea Road are not high enough to meet the warrant, but with pedestrian counts in excess of 200 in the afternoon peak and a large amount of vehicle activity along with the fact the Ngatiawa Street and Waimea Road speed zone sections need to be connected, it is recommended that this section of Hampden Street be included. The proposed signs layout is shown in Figure 4 of Appendix A.

2.5 Victory School

It is proposed to extend the existing Victory School speed zone to include Totara Street and St Vincent Street as shown in Figure 5 of Appendix A. With well over 50 children crossing and 85th percentile vehicle speeds of greater than 50km/h, this section of St Vincent Street meets the warrant conditions in full.

Totara Street also has greater than 50 children crossing, although vehicle speeds are lower than required to meet the warrant. In this case it is recommended that Totara Street be included to provide a cohesive speed zone and essentially join the existing zone on Vanguard Street to the critical St Vincent Street/Totara Street intersection.

It is further recommended that consideration be given to the construction of traffic calming measures at or in the vicinity of the Totara Street/St Vincent Street intersection to further encourage reduced vehicle speeds.

2.6 Tahunanui School

It is proposed to extend the existing variable school speed zone for Tahunanui School to include Tahunanui Drive (SH6). Although speeds and traffic volumes are high, the pedestrian data collected for the site for a typical school day shows that greater than 50 children cross the road or enter or leave vehicles at the roadside on Tahunanui Drive during the before and after school periods, as sought by the warrant.

Additionally, there is a crash record in the locality and NZTA have accordingly expressed their support for a variable school speed zone to be extended to include this section of state highway. It is therefore recommended that this zone be extended as shown in Figure 6 of Appendix A. Note that NZTA will be responsible for progressing any speed limit change on the state highway (Tahunanui Drive) component of this zone.

3. Times of Operation

It is recommended that the following times of operation be adopted for each school site:



- St Josephs 8:15-8:50am and 2:55-3:15pm;
- Nelson College for Girls 8:25-9:00am and 3:00-3:30pm (note: the afternoon period exceeds the 20 minute maximum in the design guidelines and as a result will need NZTA approval);
- Nelson Intermediate 8:20-8:55am and 2:45-3:15pm (note: the afternoon period exceeds the 20 minute maximum in the design guidelines and needs NZTA approval);
- Nelson College/Hampden Street School 8:25-9:00am and 3:00-3:30pm (note: the afternoon period exceeds the 20 minute maximum in the design guidelines and as a result needs NZTA approval);
- Victory School 8:20-8:55am and 2:45-3:15pm (note: the existing time limits will need to be adjusted on all signs due to the extension in time to accommodate Nelson Intermediate within the same variable speed zone, and for which NZTA approval will be required);
- Tahunanui School 8:25-9:00am and 2:55-3:15pm (note: times are the same as for the existing zone).

4. Speed Zone Schedule

The associated speed zone schedule requires the approval of Nelson City Council and is appended to this report as Appendix B.

5. Conclusion & Recommendations

Following on from a similar study last year, this study has included a detailed review to investigate whether or not variable 40km/h speed zones are warranted for five new schools together with an evaluation of whether extensions are warranted for a further two schools (Tahunanui School and Victory School), as identified by Council.

It is understood that these schools were identified by Council in conjunction with the schools themselves as most likely to meet the warrants for 40km/h school speed zones, subject to more detailed appraisal, as summarised by this report.

In summary, it is considered by the consultant team that school speed zones are warranted for all of these additional schools and that the extent of the zones at Victory School and Tahunanui School also be increased.

This report provides the warrants in each case together with plans showing the location and layout of the signs required, for implementation.

Recommended additions to 'Schedule M' of the NCC Speed Limits Bylaw are provided for the approval of Council.

It is concluded that with the close proximity of some schools, the speed zones extend across more than one school, as follows:

- Nelson College/Hampden Street/Nelson College for Girls, and
- Nelson Intermediate/Victory School.



In view of differences in the school start and finish times, this will require a dispensation from the warrant.

It is recommended that these plans be adopted.

Traffic Design Group Ltd April 2013



Appendix A Site Warrant Assessments and Speed Limit Layout Plans



SUMMARY DATA SHEET

Name of school: St Josephs Main frontage road(s): Collingwood Street Frontage Road type: Collector Average Daily Vehicle Traffic Flow (ADT): 4,800vpd WARRANT CRITERIA Complies (a) Pedestrian Flows: (>50 children and) Yes Complies Traffic Speeds: (i) (either mean > 45 km/h) 46.3 km/h Complies (iii) (or 85th percentile > 50 km/h) 52.9 km/h Complies (iii) Five Year Crash Record: (or speed related crashes recorded on the last 5 years) N/A (iv) Main traffic route (or school on main traffic route) N/A (b) Engineered speed limit <40 km/h N/A SITE COMPLIANCE WITH WARRANT COMPLIES Other reasons for implementation COMPLIES RECOMMENDED LOCATION/iMPLIMENTATION See Figure 1 attached No. of Electronic Variable Speed Signs: 2 No. of Static speed signs: 1 No. of "School Zone Ends" signs: 3 No. of Kerb build-outs: 3			
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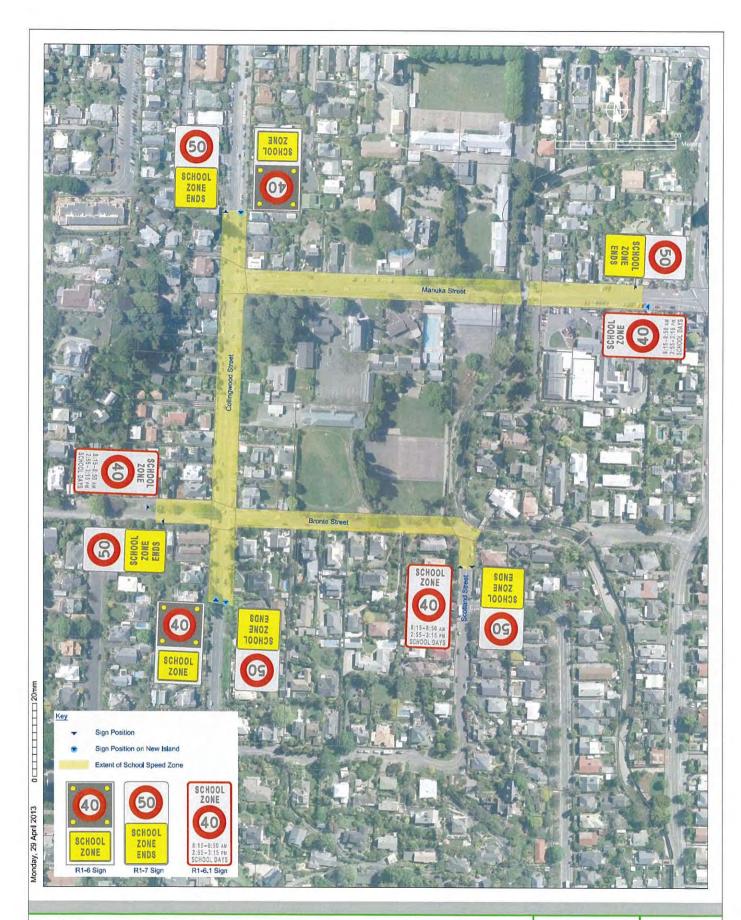
Data Sheet - St Josephs.Doc

Name of school:		St Josephs	
Main frontage roa	nd(s):	Manuka Street Local 700vpd	
Frontage Road ty	pe:		
Average Daily Ve	hicle Traffic Flow (ADT):		
WARRANT CRITE	ERIA		
(a) Pedestrian Flo	ows: (>50 children <u>and</u>)	Yes	Complies
Traffic Speeds:	(i) (<u>either</u> mean >45km/h)		N/A
	(ii) (or 85 th percentile >50km/h)		N/A
(iii) Five Year Cra	sh Record: (<u>or</u> speed related crashes	recorded on the last 5 year	ars)
		VIII VIII VIII VIII VIII VIII VIII VII	N/A
			11/000104111/000144
(iv) Main traffic ro	oute (<u>or</u> school on main traffic route)		N/A
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Data Sheet - St Josephs.Doc

Name of school:			St Josephs	
Main frontage roa	d(s):		Bronte Street	
Frontage Road ty	 pe:		Local	
Average Daily Vel	nicle Traffic Flow (ADT):	700vpd	
WARRANT CRITE	RIA			
(a) Pedestrian Flo	ws: (>50 children <u>s</u>	<u>and</u>)	Yes	Complies
Traffic Speeds:	(i) (<u>either</u> mean >	-45km/h)		N/A
	(ii) (<u>or</u> 85 th perce	ntile >50km/h)		N/A
(iii) Five Year Cra	sh Record: (<u>or</u> spe	ed related crashes	recorded on the	last 5 years)
d				N/A
(iv) Main traffic ro	uite (or school on i	main traffic route)		N/A
	ute (or school on i	main traffic route)		N/A
(b) Engineered sp	eed limit <40km/h			N/A
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Data Sheet - St Josephs.Doc



Nelson Schools Variable Speed Limits Saint Josephs School



SCALE: 1:3,000@A4



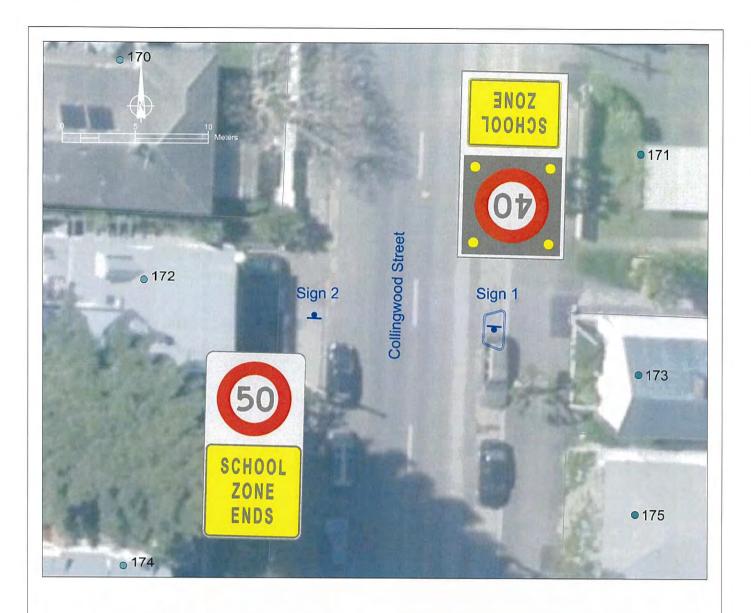




Sign 2 Location

Nelson Schools Variable Speed Limits Saint Josephs School











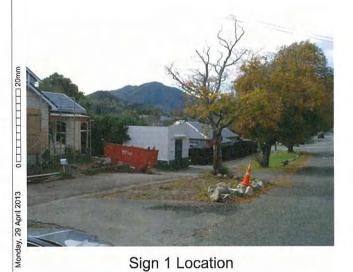
Sign 2 Location

Nelson Schools Variable Speed Limits Saint Josephs School











Nelson Schools Variable Speed Limits Saint Josephs School



1c







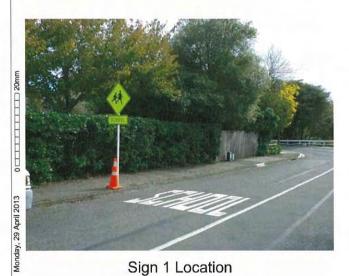
Sign 2 Location

Nelson Schools Variable Speed Limits Saint Josephs School



SCALE: 1:250@A4







Nelson Schools Variable Speed Limits Saint Josephs School



1e

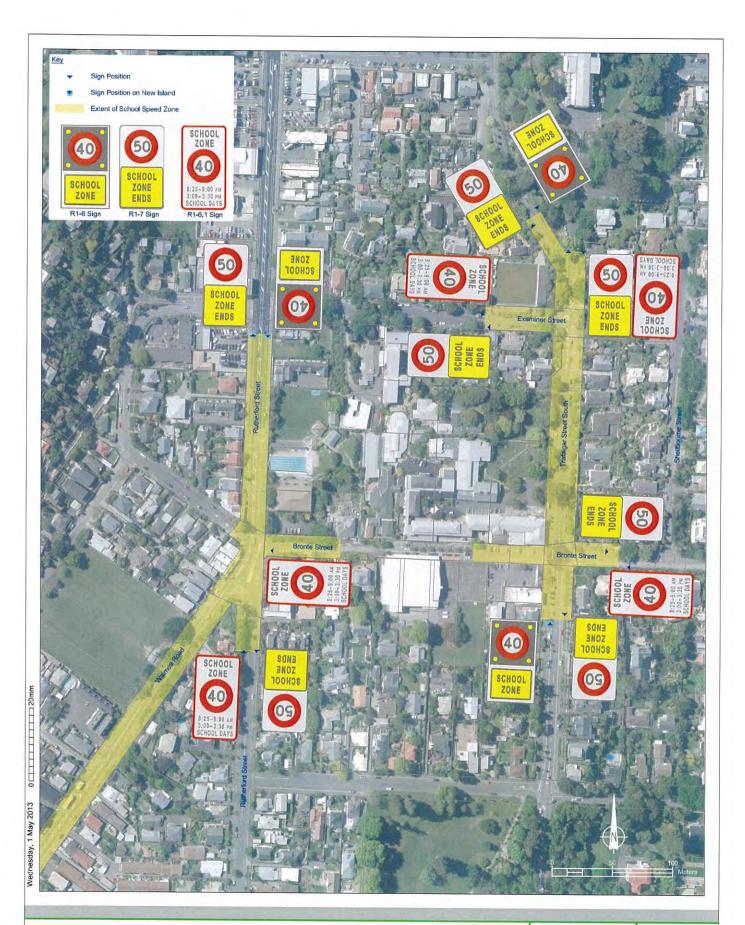
SUMMARY DATA SHEET

Name of school:	Nelson Girls Colleg	ie	
Main frontage road(s):	Rutherford Street	Rutherford Street	
Frontage Road type:	Arterial	4,4	
Average Daily Vehicle Traffic Flow (ADT	T): 14,650 v pd	14,650 v pd	
WARRANT CRITERIA			
(a) Pedestrian Flows: (>50 children and)) Yes	Complies	
Traffic Speeds: (i) (either mean >45k	rm/h)	N/A	
(ii) (<u>or</u> 85 th percentile	e >50km/h)	N/A	
(iii) Five Year Crash Record: (<u>or</u> speed r	related crashes recorded on the last	t 5 years)	
		N/A	
		A	
		· ·	
(iv) Main traffic route (<u>or</u> school on main	n traffic route) Yes	Complies	
(iv) Main traffic route (<u>or</u> school on main (b) Engineered speed limit <40km/h	n traffic route) Yes	Complies	
	n traffic route) Yes	N/A	
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRANT	n traffic route) Yes	***************************************	
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRANT Other reasons for implementation		N/A	
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRANT Other reasons for implementation RECOMMENDED LOCATION/IMPLIMENT	TATION	N/A COMPLIES	
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRANT Other reasons for implementation RECOMMENDED LOCATION/IMPLIMENT Location of Signs	TATION See Figure 2 attach	N/A COMPLIES	
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRANT Other reasons for implementation RECOMMENDED LOCATION/IMPLIMENT Location of Signs	TATION See Figure 2 attach	N/A COMPLIES	
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRANT	TATION See Figure 2 attach	N/A COMPLIES	
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRANT Other reasons for implementation RECOMMENDED LOCATION/IMPLIMENT Location of Signs No. of Electronic Variable Speed Signs:	TATION See Figure 2 attach	N/A COMPLIES	
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRANT Other reasons for implementation RECOMMENDED LOCATION/IMPLIMENT Location of Signs No. of Electronic Variable Speed Signs: No. of Static speed signs:	TATION See Figure 2 attach 1 2	N/A COMPLIES	

Data Sheet - Nelson Girls.Doc

Name of school:		Nelson Girls College	
Main frontage roa	ad(s):	Trafalgar Street	
Frontage Road ty	/pe:	Local	
Average Daily Ve	hicle Traffic Flow (ADT):	2,730vpd	
WARRANT CRITI	ERIA		
(a) Pedestrian Flo	ows: (>50 children <u>and</u>)	Yes	Complies
Traffic Speeds:	(i) (<u>either</u> mean >45km/h)	46.6km/h	Complies
	(ii) (<u>or</u> 85 th percentile >50km/h)	53.3km/h	Complies
(iii) Five Year Cra	sh Record: (<u>or</u> speed related crashes	recorded on the last 5 years)
			N/A
(iv) Main traffic r	outo (or school on main traffic route)		N/Δ
	oute (<u>or</u> school on main traffic route)		N/A
(b) Engineered s	peed limit <40km/h		N/A
(b) Engineered s	peed limit <40km/h CE WITH WARRANT		
(b) Engineered s SITE COMPLIAN Other reasons fo	peed limit <40km/h CE WITH WARRANT or implementation		N/A
(b) Engineered s SITE COMPLIAN Other reasons for	peed limit <40km/h CE WITH WARRANT or implementation D LOCATION/IMPLIMENTATION		N/A
(b) Engineered s SITE COMPLIAN Other reasons for RECOMMENDED Location of Sign	peed limit <40km/h CE WITH WARRANT or implementation D LOCATION/IMPLIMENTATION	See Figure 2 attached	N/A
(b) Engineered s SITE COMPLIAN Other reasons for RECOMMENDED Location of Sign No. of Electronic	peed limit <40km/h CE WITH WARRANT or implementation D LOCATION/IMPLIMENTATION s c Variable Speed Signs:	2	N/A
(b) Engineered s SITE COMPLIAN Other reasons for RECOMMENDED Location of Sign No. of Electronic	peed limit <40km/h CE WITH WARRANT or implementation D LOCATION/IMPLIMENTATION S E Variable Speed Signs:	2 3	N/A
(b) Engineered s SITE COMPLIAN Other reasons for RECOMMENDED Location of Sign No. of Electronic	peed limit <40km/h CE WITH WARRANT or implementation D LOCATION/IMPLIMENTATION S Variable Speed Signs: red signs: cone Ends" signs:	2	N/A

Data Sheet - Nelson Girls.Doc



Nelson Schools Variable Speed Limits Nelson Girls College



2 SCALE: 1:3,000@A4



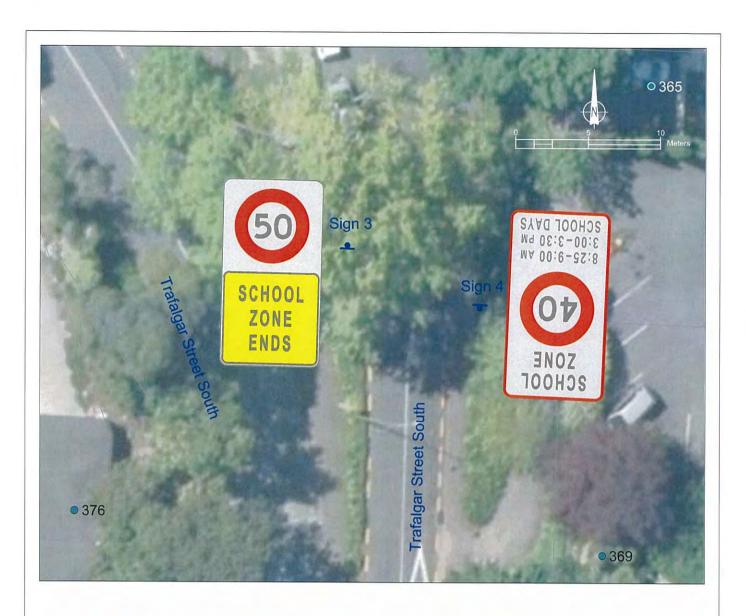




Nelson Schools Variable Speed Limits Nelson Girls College



2a SCALE: 1:250@A4







Nelson Schools Variable Speed Limits Nelson Girls College



2b scale: 1:250@A4







Nelson Schools Variable Speed Limits Nelson Girls College



2c









Sign 4 Location

Nelson Schools Variable Speed Limits Nelson Girls College









Nelson Schools Variable Speed Limits Nelson Girls College



2e scale: 1:250@A4

Monday, 29 April 2013



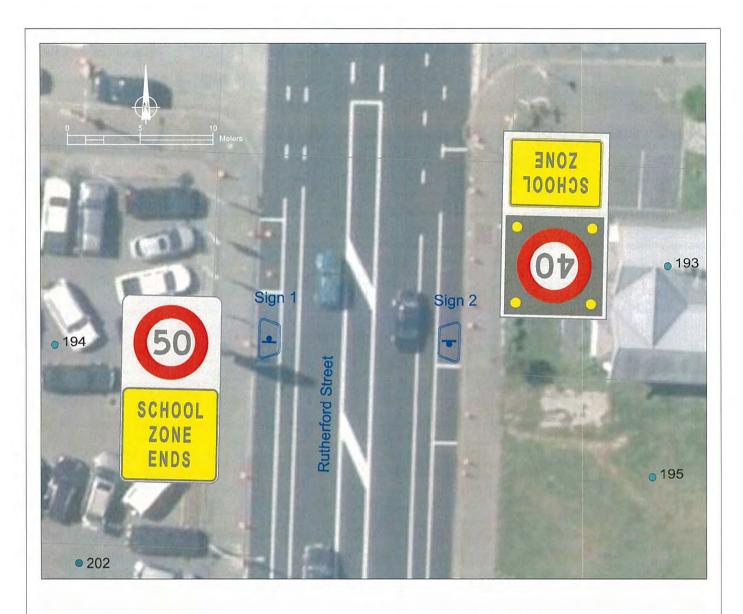




Nelson Schools Variable Speed Limits Nelson Girls College



2f
SCALE: 1:250@A4







Nelson Schools Variable Speed Limits Nelson Girls College











Nelson Schools Variable Speed Limits Nelson Girls College



2h

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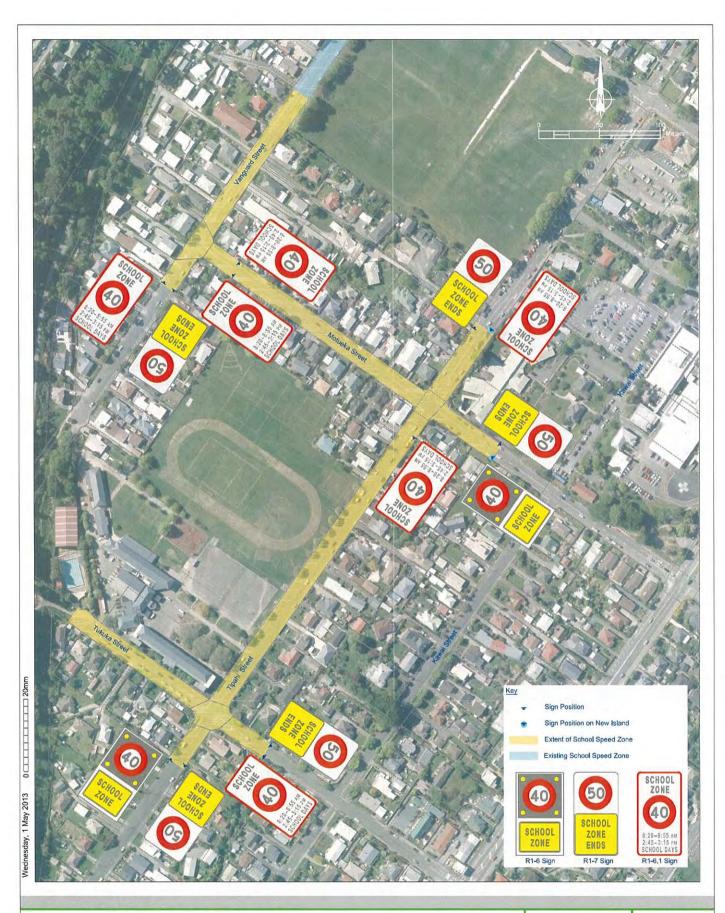
SUMMARY DATA SHEET

		······
Name of school:	Nelson Intermediate	
Main frontage road(s):	Tipahi Street	
Frontage Road type:	Local	
Average Daily Vehicle Traffic Flow (ADT):	1,660vpd	
WARRANT CRITERIA		<u> </u>
(a) Pedestrian Flows: (>50 children and)	Yes	Complies
Traffic Speeds: (i) (either mean >45km/h)		N/A
(ii) (<u>or</u> 85 th percentile >50km/h)	51.5km/h	Complies
(iii) Five Year Crash Record: (or speed related crashes	recorded on the last 5 years)	
		N/A
		- A A A A A A A A A A A A A A A A A A A
(iv) Main traffic route (or school on main traffic route)		N/A
(b) Engineered speed limit <40km/h		1977
SITE COMPLIANCE WITH WARRANT		N/A
Other reasons for implementation		N/A
Other reasons for implementation RECOMMENDED LOCATION/IMPLIMENTATION		N/A
	See Figure 3 attached	N/A
RECOMMENDED LOCATION/IMPLIMENTATION	See Figure 3 attached	N/A
RECOMMENDED LOCATION/IMPLIMENTATION Location of Signs		N/A
RECOMMENDED LOCATION/IMPLIMENTATION Location of Signs No. of Electronic Variable Speed Signs:	1	N/A
RECOMMENDED LOCATION/IMPLIMENTATION Location of Signs No. of Electronic Variable Speed Signs: No. of Static speed signs:	1 3	N/A

Data Sheet - Nelson Intermediate.Doc

Name of school:		Nelson Intermediate	
Main frontage roa	nd(s):	Motueka Street	
Frontage Road ty	pe:	Collector	
Average Daily Ve	hicle Traffic Flow (ADT):	6,830vpd	
WARRANT CRITE	RIA		
(a) Pedestrian Flo	ows: (>50 children <u>and</u>)	Yes	Complies
Traffic Speeds:	(i) (<u>either</u> mean >45km/h)		N/A
	(ii) (<u>or</u> 85 th percentile >50km/h)		N/A
(iii) Five Year Cra	sh Record: (<u>or</u> speed related crashes	recorded on the last 5 years)	
			N/A
			i
(iv) Main traffic ro	oute (<u>or</u> school on main traffic route)		N/A
	oute (<u>or</u> school on main traffic route) need limit <40km/h		N/A N/A
(b) Engineered sp			
(b) Engineered sp	peed limit <40km/h		N/A
(b) Engineered sp SITE COMPLIANO Other reasons for	peed limit <40km/h		N/A
(b) Engineered sp SITE COMPLIANO Other reasons for	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION	See Figure 3 attached	N/A
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION	See Figure 3 attached	N/A
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION Variable Speed Signs:	<u> </u>	N/A
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs No. of Electronic	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION Variable Speed Signs:	1	N/A
(b) Engineered sp SITE COMPLIANC Other reasons for RECOMMENDED Location of Signs No. of Electronic No. of Static spee	ceed limit <40km/h CE WITH WARRANT Timplementation LOCATION/IMPLIMENTATION COMMON COMM	3	N/A

Data Sheet - Nelson Intermediate.Doc





3 SCALE: 1:3,000@A4

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Sign 2 Location



3a SCALE: 1:250@A4







Sign 2 Location



3b SCALE: 1:250@A4





Nelson Schools Variable Speed Limits Nelson Intermediate School



3c SCALE: 1:250@A4

Monday, 29 April 2013







Sign 2 Location



3d SCALE: 1:250@A4

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Sign 2 Location

Nelson Schools Variable Speed Limits Nelson Intermediate School



3e







Sign 2 Location

Nelson Schools Variable Speed Limits Nelson Intermediate School



3f SCALE: 1:250@A4





Sign 1 Location



Sign 2 Location

Nelson Schools Variable Speed Limits Nelson Intermediate School





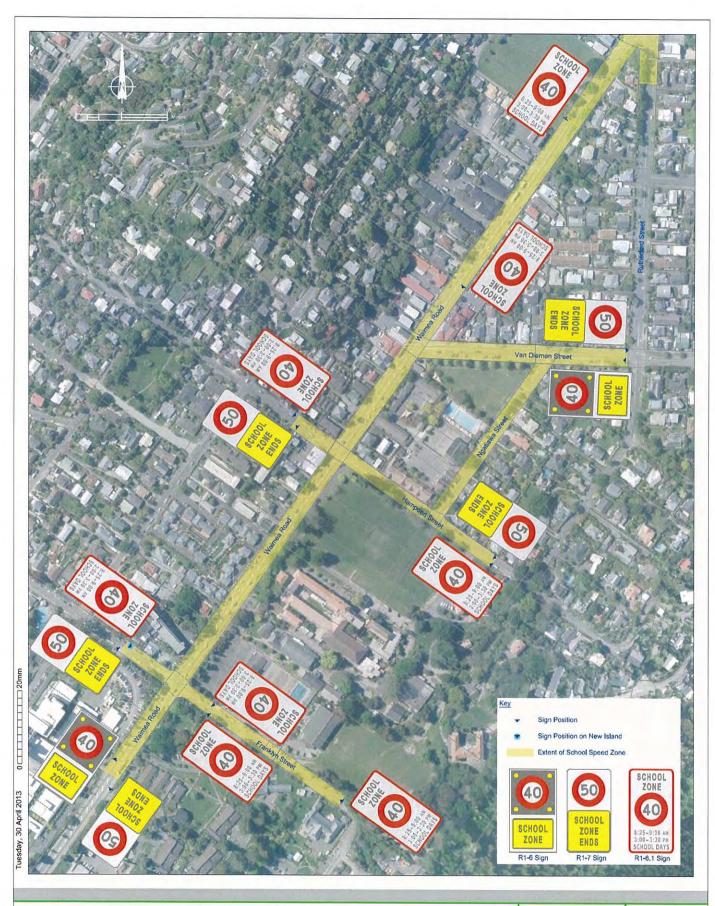
SUMMARY DATA SHEET

Name of school:		Nelson Boys College/Hampden Street	
Main frontage road(s):		Franklyn Street	
Frontage Road type:		Local	
Average Daily Vehicle Traffic Flow (ADT):	440vpd	
WARRANT CRITERIA	**************************************		
(a) Pedestrian Flows: (>50 children	and)	Yes	Complies
Traffic Speeds: (i) (either mean :	>45km/h)		N/A
(ii) (<u>or</u> 85 th perce	entile >50km/h)		N/A
(iii) Five Year Crash Record: (or spe	ed related crashes	recorded on the last 5 ye	ears)
			N/A
(iv) Main traffic route (or school on i	main traffic route)		N/A
(iv) Main traffic route (<u>or</u> school on i	main traffic route)		N/A N/A
			N/A N/A NO
(b) Engineered speed limit <40km/h	T	ge needed to cover full sit	N/A NO
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN	T No additional signa	ge needed to cover full sit	N/A NO
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN Other reasons for implementation	T No additional signa	ge needed to cover full sit	N/A NO
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN Other reasons for implementation RECOMMENDED LOCATION/IMPLIA	T No additional signa MENTATION		N/A NO
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN Other reasons for implementation RECOMMENDED LOCATION/IMPLIN Location of Signs	T No additional signa MENTATION	See Figure 4 attached	N/A NO
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN Other reasons for implementation RECOMMENDED LOCATION/IMPLIM Location of Signs No. of Electronic Variable Speed Signs	T No additional signa MENTATION	See Figure 4 attached	N/A NO

Name of school:		Nelson Boys College/Hampden Street	
Main frontage road(s):		Hampden Street	
Frontage Road type:		Local	
Average Daily Vehicle Traffic Flow (ADT):		1160vpd	
WARRANT CRITERIA			
(a) Pedestrian Flows: (>50 children a	and)	Yes	Complies
Traffic Speeds: (i) (either mean >	-45km/h)		N/A
(ii) (<u>or</u> 85 th perce	ntile >50km/h)		N/A
(iii) Five Year Crash Record: (or spe	ed related crashe	s recorded on the last	5 years)
			N/A
(iv) Main traffic route (<u>or</u> school on r	main traffic route)	N/A
(iv) Main traffic route (<u>or</u> school on r (b) Engineered speed limit <40km/h	main traffic route))	N/A N/A
			* · · · · · · · · · · · · · · · · · · ·
(b) Engineered speed limit <40km/h	T No additional sig		N/A
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN	T No additional sig connect Waimea	nage needed to cover	N/A NO
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN Other reasons for implementation	T No additional sig connect Waimea	nage needed to cover	N/A NO full site frontage. Need to
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN Other reasons for implementation RECOMMENDED LOCATION/IMPLIA	T No additional sig connect Waimea MENTATION	nage needed to cover Rd to Ngatiawa St.	N/A NO full site frontage. Need to
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN Other reasons for implementation RECOMMENDED LOCATION/IMPLIA Location of Signs	T No additional sig connect Waimea MENTATION	nage needed to cover Rd to Ngatiawa St. See Figure 4 attach	N/A NO full site frontage. Need to
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN Other reasons for implementation RECOMMENDED LOCATION/IMPLIN Location of Signs No. of Electronic Variable Speed Sig	T No additional sig connect Waimea MENTATION	nage needed to cover Rd to Ngatiawa St. See Figure 4 attach	N/A NO full site frontage. Need to
(b) Engineered speed limit <40km/h SITE COMPLIANCE WITH WARRAN Other reasons for implementation RECOMMENDED LOCATION/IMPLIM Location of Signs No. of Electronic Variable Speed Sig	T No additional sig connect Waimea MENTATION	nage needed to cover Rd to Ngatiawa St. See Figure 4 attach	N/A NO full site frontage. Need to

Name of school:		Nelson Boys College	/Hampden Street
Main frontage road	d(s):	Ngatiawa Street	
Frontage Road ty	pe:	Local 890vpd	
Average Daily Ve	hicle Traffic Flow (ADT):		
WARRANT CRITE	ERIA		
(a) Pedestrian Flo	ows: (>50 children <u>and</u>)	Yes	Complies
Traffic Speeds:	(i) (<u>either</u> mean >45km/h)		N/A
	(ii) (or 85 th percentile >50km/h)		N/A
(iii) Five Year Cra	sh Record: (<u>or</u> speed related crash	es recorded on the last 5	i years)
			N/A
(iv) Main traffic ro	oute (<u>or</u> school on main traffic route)	N/A
	oute (<u>or</u> school on main traffic route peed limit <40km/h	Yes	N/A Complies
(b) Engineered sp			
(b) Engineered sp	peed limit <40km/h		Complies
(b) Engineered sp SITE COMPLIANC Other reasons for	peed limit <40km/h		Complies
(b) Engineered sp SITE COMPLIAN Other reasons for RECOMMENDED	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION	Yes	Complies
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION	Yes See Figure 4 attached	Complies
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs No. of Electronic	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION Variable Speed Signs:	Yes See Figure 4 attached 0	Complies
(b) Engineered sp SITE COMPLIANC Other reasons for RECOMMENDED Location of Signs No. of Electronic No. of Static spee	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION Variable Speed Signs:	Yes See Figure 4 attached 0 0	Complies
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs No. of Electronic	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION Variable Speed Signs:	Yes See Figure 4 attached 0	Complies
(b) Engineered sp SITE COMPLIANC Other reasons for RECOMMENDED Location of Signs No. of Electronic No. of Static spee	ceed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION Variable Speed Signs: ed signs:	Yes See Figure 4 attached 0 0	Complies

Name of school:		Nelson Boys College/Han	ipaen Sireet
Main frontage road	d(s):	Van Diemen Street	
Frontage Road ty	pe:	Collector	
Average Daily Ve	hicle Traffic Flow (ADT):	5230vpd	PANILLA BANKANIN PERAPERAN
WARRANT CRITE	ERIA		
(a) Pedestrian Flo	ows: (>50 children <u>and</u>)	Yes	Complies
Traffic Speeds:	(i) (<u>either</u> mean >45km/h)	47.1km/h	Complies
	(ii) (<u>or</u> 85 th percentile >50km/h)	54.4 k m/h	Complies
(iii) Five Year Cra	ish Record: (<u>or</u> speed related crashes	recorded on the last 5 year	ars)
***************************************			N/A
(iv) Main traffic re	oute (<u>or</u> school on main traffic route)		N/A
	oute (<u>or</u> school on main traffic route) peed limit <40km/h		N/A N/A
(b) Engineered s			
(b) Engineered s	peed limit <40km/h		N/A
(b) Engineered s SITE COMPLIAN Other reasons fo	peed limit <40km/h CE WITH WARRANT		N/A
(b) Engineered s SITE COMPLIAN Other reasons fo	peed limit <40km/h CE WITH WARRANT r implementation	See Figure 4 attached	N/A
(b) Engineered space SITE COMPLIANCE Other reasons for RECOMMENDED Location of Signs	peed limit <40km/h CE WITH WARRANT r implementation		N/A
(b) Engineered space SITE COMPLIANCE Other reasons for RECOMMENDED	peed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION s Variable Speed Signs:	See Figure 4 attached	N/A
(b) Engineered specific compliance (b) Engineered specific compliance (c) SiTE COMPLIANCE (d) Other reasons for RECOMMENDED (e) Location of Signs (e) No. of Electronic (e) No. of Static specific compliance (f) No. of Stati	peed limit <40km/h CE WITH WARRANT r implementation LOCATION/IMPLIMENTATION s Variable Speed Signs:	See Figure 4 attached	N/A



Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School









Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School



4a SCALE: 1:250@A4

Monday, 29 April 2013



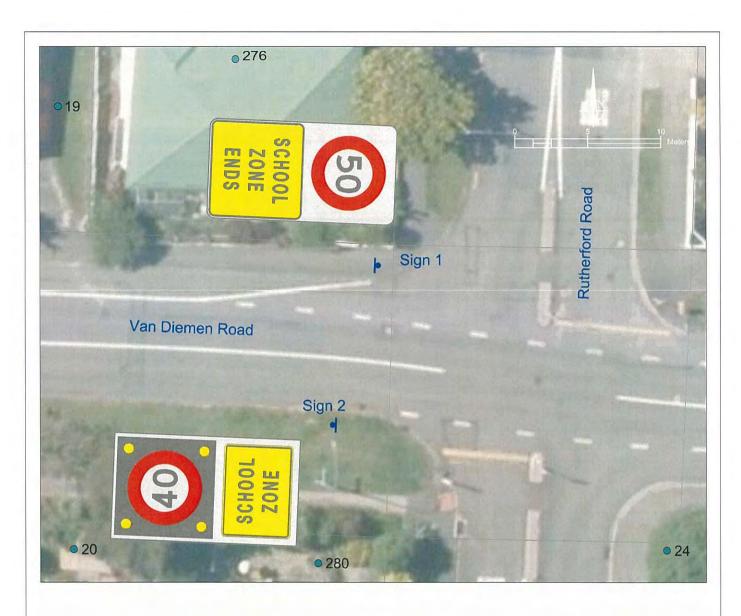


Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School



4b scale: 1:250@A4

Monday, 29 April 2013







Sign 2 Location

Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School



4c







Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School











Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School



4e SCALE: 1:250@A4







Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School



4f



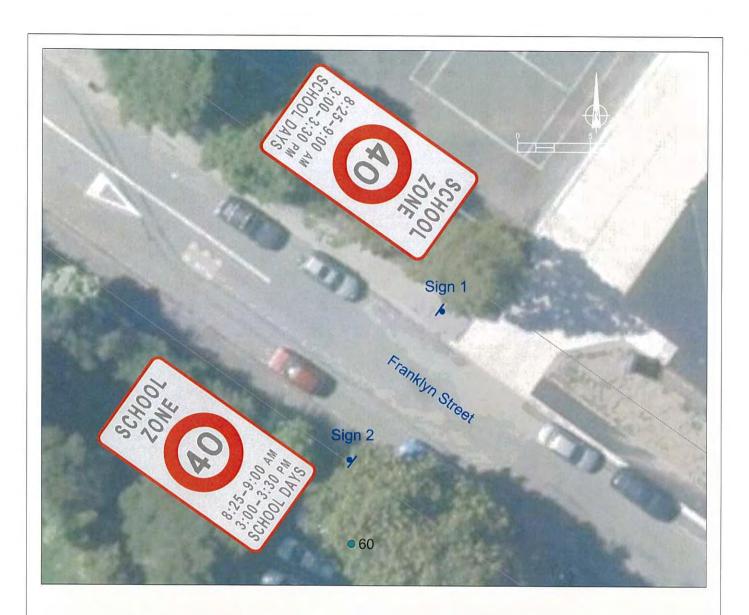




Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School



4g







Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School









Nelson Schools Variable Speed Limits
Nelson Boys College/Hampden Street School



4i SCALE: 1:250@A4

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Monday, 29 April 2013

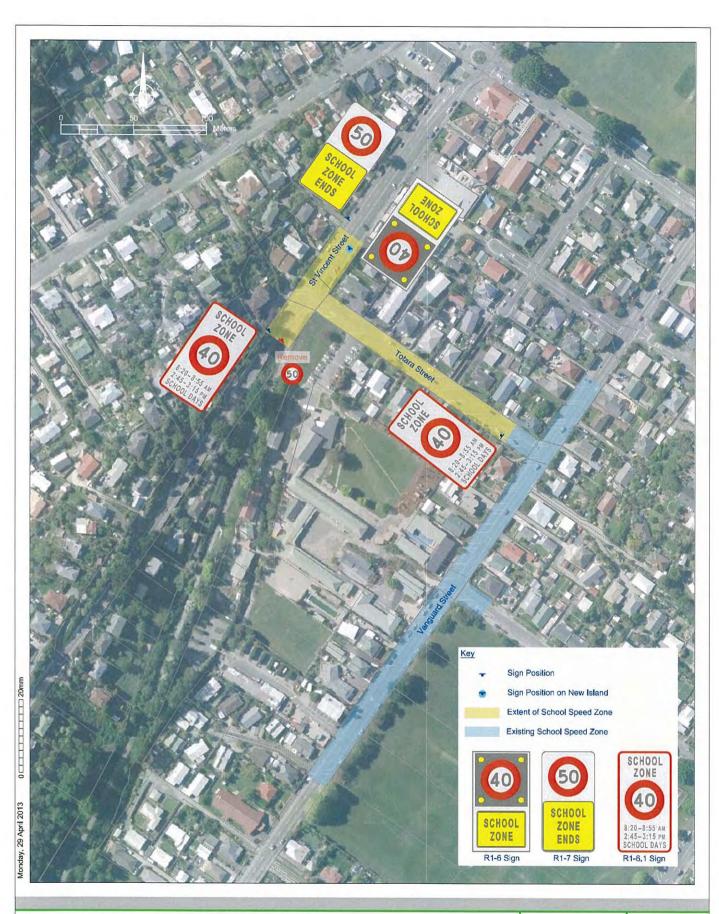
SUMMARY DATA SHEET

Name of school:		Victory School	
Main frontage roa	nd(s):	St Vincent Street	
Frontage Road ty	pe:	Principal	
Average Daily Ve	hicle Traffic Flow (ADT):	1,200vpd	***************************************
WARRANT CRITE	RIA		
(a) Pedestrian Flo	ws: (>50 children <u>and</u>)	Yes	Complies
Traffic Speeds:	(i) (<u>either</u> mean >45km/h)	46.3km/h	Complies
	(ii) (<u>or</u> 85 th percentile >50km/h)	51.9km/h	Complies
(iii) Five Year Cra	sh Record: (<u>or</u> speed related crashes	recorded on the last 5 years	s)
			N/A
			1
			7 777770
/iv) Main traffic ro	utto (or cohool on main traffia routt)		
	ute (<u>or</u> school on main traffic route)		N/A
	oute (<u>or</u> school on main traffic route) need limit <40km/h		N/A N/A
(b) Engineered sp			
(b) Engineered sp	eed limit <40km/h		N/A
(b) Engineered sp SITE COMPLIANO Other reasons for	eed limit <40km/h		N/A
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED	ceed limit <40km/h CE WITH WARRANT implementation LOCATION/IMPLIMENTATION	See Figure 5 attached	N/A
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs	ceed limit <40km/h CE WITH WARRANT implementation LOCATION/IMPLIMENTATION	See Figure 5 attached	N/A
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs	ceed limit <40km/h CE WITH WARRANT CE Implementation LOCATION/IMPLIMENTATION COMPANY OF THE PROPERTY OF THE PR		N/A
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs	ceed limit <40km/h CE WITH WARRANT implementation LOCATION/IMPLIMENTATION Variable Speed Signs: d signs:	1	N/A
(b) Engineered sp SITE COMPLIANO Other reasons for RECOMMENDED Location of Signs No. of Electronic	eed limit <40km/h CE WITH WARRANT Implementation LOCATION/IMPLIMENTATION Variable Speed Signs: d signs:	1	N/A

Data Sheet - Victory School Extension.Doc

Name of school:		Victory School		
Main frontage road(s): Frontage Road type:		Totara Street		
		Local		
Average Daily Vehicle	Traffic Flow (ADT):	1,080vpd	
WARRANT CRITERIA				
(a) Pedestrian Flows: (>50 children <u>s</u>	and)	Yes	Complies
Traffic Speeds: (i) ((<u>either</u> mean >	-45km/h)		N/A
(ii)	(<u>or</u> 85 th perce	ntile >50km/h)		N/A
(iii) Five Year Crash Re	ecord: (<u>or</u> spe	ed related crashes	recorded on th	e last 5 years)
Carrier 1997				N/A
				N/A
(iv) Main traffic route (N/A
(b) Engineered speed	limit <40km/h			N/A
(b) Engineered speed	limit <40km/h ITH WARRAN	T		N/A NO
(b) Engineered speed	limit <40km/h ITH WARRAN		nt St zone to Var	N/A NO
(b) Engineered speed	limit <40km/h ITH WARRAN lementation	T Connect St Vince	nt St zone to Var	N/A NO
(b) Engineered speed SITE COMPLIANCE W	limit <40km/h ITH WARRAN lementation	T Connect St Vince	nt St zone to Var See Figure 5	N/A NO nguard St Zone
(b) Engineered speed SITE COMPLIANCE WI Other reasons for imp	limit <40km/h ITH WARRAN lementation	T Connect St Vince		N/A NO nguard St Zone
(b) Engineered speed SITE COMPLIANCE W Other reasons for impl RECOMMENDED LOC Location of Signs	limit <40km/h ITH WARRAN lementation ATION/IMPLIN	T Connect St Vince	See Figure 5	N/A NO nguard St Zone
(b) Engineered speed SITE COMPLIANCE W Other reasons for impl RECOMMENDED LOC Location of Signs No. of Electronic Varia	limit <40km/h ITH WARRAN Iementation ATION/IMPLIN able Speed Sig	T Connect St Vince	See Figure 5	N/A NO nguard St Zone

Data Sheet - Victory School Extension.Doc



Nelson Schools Variable Speed Limits Victory School Extension



5 SCALE: 1:2,500@A4



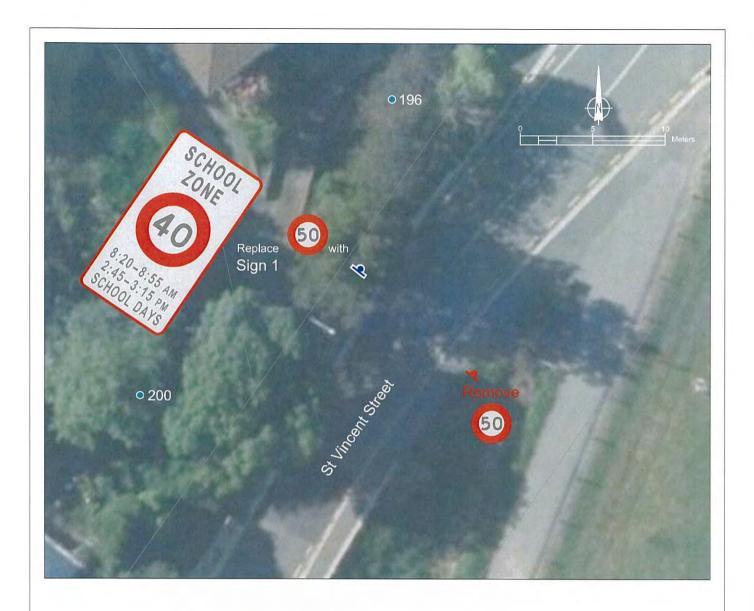




Nelson Schools Variable Speed Limits Victory School Extension



5a
SCALE: 1:250@A4





Nelson Schools Variable Speed Limits Victory School Extension



5b scale: 1:250@A4

Monday, 29 April 2013





Nelson Schools Variable Speed Limits Victory School Extension



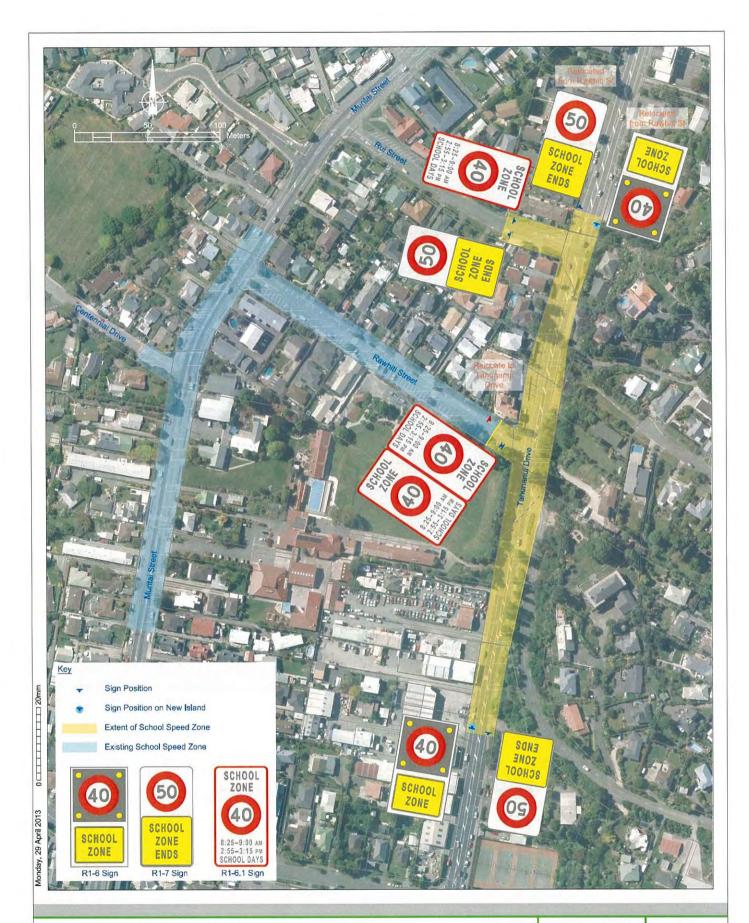
5c SCALE: 1:250@A4

Monday, 29 April 2013

SUMMARY DATA SHEET

Name of school:				
		Tahunanui School		
Main frontage road(s):		Tahunanui Drive (SH1)		
Frontage Road type:		State Highway		
Average Daily Vehicle Traffic Flow (ADT): 19,500vpd				
WARRANT CRITERIA				
(a) Pedestrian Flows: (>50 children	and)	Yes	Complies	
Traffic Speeds: (i) (either mean	>45km/h)		N/A	
(ii) (<u>or</u> 85 th perce	entile >50km/h)		N/A	
(iii) Five Year Crash Record: (or spe	eed related crashes	recorded on the last 5 years)		
	The second secon		N/A	
			**Gallary Control of the Control of	
(iv) Main traffic route (<u>or</u> school on	main traffic route)	Yes	Complies	
(b) Engineered speed limit <40km/h			N/A	
SITE COMPLIANCE WITH WARRAN	T		COMPLIES	
Other reasons for implementation	NZTA support			
RECOMMENDED LOCATION/IMPLIN	MENTATION			
Location of Signs		See Figure 6 attached		
No. of Electronic Variable Speed Sig	No. of Electronic Variable Speed Signs:		2 (1 new and one relocated)	
No. of Static speed signs:		= (1 new and one relocated)		
No. of Static speed signs:	yııs:	3	125-141110g-141-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	
No. of Static speed signs: No. of "School Zone Ends" signs:	Jus.			
	JIIS.	3		

Data Sheet - Tahunanui School.Doc



Nelson Schools Variable Speed Limits
Tahunanui School





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Sign 1 Location Sign 2 Location

Nelson Schools Variable Speed Limits
Tahunanui School











Sign 2 Location

Nelson Schools Variable Speed Limits
Tahunanui School





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Nelson Schools Variable Speed Limits Tahunanui School



6c SCALE: 1:250@A4

Monday, 29 April 2013







Nelson Schools Variable Speed Limits
Tahunanui School





Appendix B Schedule of Variable Speed Limits



Recommended additions to NCC Speed Limits Bylaw (no. 210): Schedule M – Variable Speed Limits

Road Name	Location			
	it in school zones (40km/h) to operate in accordance with the NZ Gazett easurements are taken from the nearest road reserve boundary.			
Scotland Street	from 25m north of Seymour Avenue to Bronte Street			
Tipahi Street	from 42m south west of Tukuka Street to 70m north east of Motueka Street			
Tukuka Street	from the north west cul-de-sac to 44m south east of Tipahi Street			
Motueka Street	from 56m south east of Tipahi Street to its intersection with Vanguard Street			
Vanguard Street	from 36m south west of Motueka Street to 51m north east of Totara Street			
Totara Street	all of Totara Street			
St Vincent Street	from 25m south west of Totara Street to 40m north east of Totara Street			
Waimea Road	from 112m south west of Franklyn Street through to and including its intersection with Rutherford Street			
Franklyn Street	from 60m north west of Waimea Road through to its end, 210m south east of Waimea Road			
Hampden Street	from 48m north west of Waimea Road to 73m south east of Ngatiawa Street			
Ngatiawa Street	full length from Hampden Street to Van Diemen Street			
Van Diemen Street	from Waimea Road to 82m east of Ngatiawa Street			
Rutherford Street	from 78m south of Bronte Street west to 160m north of Bronte Street west			
Bronte Street West	all of Bronte Street West			
Wellington Street	first 10m of Wellington Street north west of Rutherford Street			
Trafalgar Street South	from 45m south of Bronte Street to Trafalgar Square			
Bronte Street	from Nelson College for Girls to 36m east of Trafalgar Street			
Examiner Street	first 65m of Examiner Street west of Trafalgar Street south			
Trafalgar Square	first 77m of Trafalgar Square, north west from Examiner Street			
Collingwood Street	from 48m north of Manuka Street to 60m south of Bronte Street			
Bronte Street	from 47m west of Collingwood Street to Scotland Street			
Manuka Street	from Collingwood Street to 55m west of Tasman Street (measured along Manuka Street southern boundary)			



Rui Street	first 36m of west of Tahunanui Drive	
Rawhiti Street	all of Rawhiti Street	

Recommended additions to State Highway network speed limits

Road Name	Location	
		40km/h) to operate in accordance with the NZ Gazette or from the nearest road reserve boundary.
Tahunanui Drive	from 180m south o	f Rawhiti Street to 16m north of Rui Street

