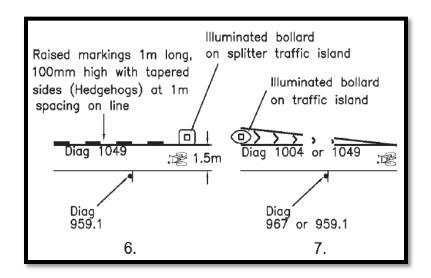


History of Cycle Lane Protection





What is light segregation?



What are its benefits?



Level of Service



Value for Money



Adaptability



Legaility



Research



INTERNATIONAL CYCLING INFRASTRUCTURE **BEST PRACTICE STUDY** Report for PHIL JONES ASSOCIATES Transport for London

- Low level separators considered more successful
- Vertical separators have higher degree of subjective safety
- Seville installed 80km of segregated network in 4 years

ROYAL COLLEGE STREET, PHASE 1 Post-Implementation Review



urban movement

REPORT July 2015

- 15 months after delivery cycling numbers rose 70%.
 Despite full segregation being removed.
- 18 collisions in
 15month period
 before
 implementation down
 the 3 in 15months
 after

Transport Research Laboratory Creating the future of transport









PUBLISHED PROJECT REPORT PPR704

TfL Cycle Facility Trials: Alternative Separation Methods for Cycle Lanes

G Beard

Prepared for:

Transport for London

Project Ref:

M12 Alternative Separations

Quality approved:

S Greenshields

(Project Manager)

Marak John

© Transport Research Laboratory 2014

- Cyclists rated kerb segregation the safest but pedestrians and motorcyclists rated it the least desirable
- Flexible posts preferred choice by all users
- Little objective safety difference between light and full segregation but light segregation more adaptable

ASSESSMENT OF THE EFFECTIVENESS OF NARROW SEPARATORS ON CYCLE LANES

Author/Presenter: Glen Koorey, PhD(Trptn), ME(Civil), BE(Hons), BSc, MIPENZ Senior Lecturer, Dept. of Civil and Natural Resources Engineering University of Canterbury, Christchurch Email: Glen.Koorey@canterbury.ac.nz

> Author: Axel Wilke, BE(Hons), ME, GIPENZ Director, ViaStrada Ltd, Christchurch Email: axel@viastrada.co.nz

Author: Judith Aussendorf, BEng Exchange student, University of Canterbury, Christchurch Email: j.aussendorf@web.de

Keywords: Cycle lanes, Separated Bike Facilities, Safety

ABSTRACT

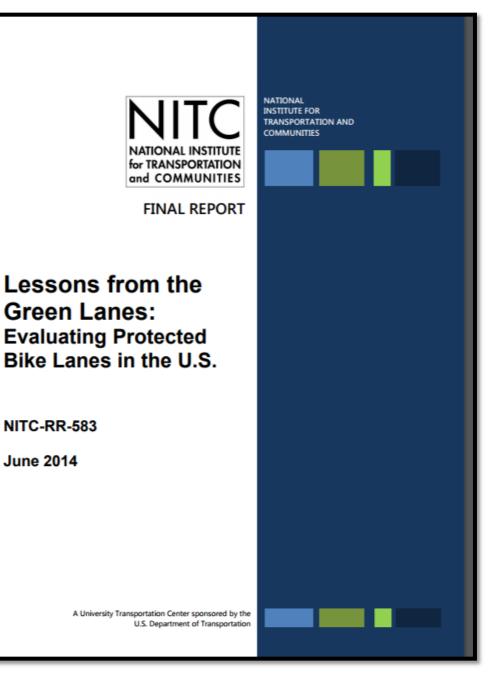
Roading authorities desire to better provide for existing people cycling, and to encourage more people who wish to cycle but are discouraged due to safety concerns. There is widespread acknowledgement (supported by a substantial body of research) that providing increased physical separation between motor vehicle and bicycle space will help address these concerns and lead to an increase in cycling.

A wide variety of physical devices and delineators are available to provide separation. This research covers on-road trials of a 100 mm wide raised bicycle lane separator in Christchurch. ViaStrada was commissioned by VicRoads to design the empirical study, and evaluate and report on the findings. Christchurch City Council provided site support and Canterbury University helped to analyse the results.

Separators were placed in two locations where motorists were commonly encroaching into exclusive bicycle lanes. Road user behaviour was observed before and after installation, and qualitative feedback was also sought from site users.

The results show a significant effect on motor vehicle encroachments following installation, particularly when separators were supplemented by vertical posts. Very positive feedback was also received from existing cyclists. Some recommendations for best practice guidance on the most appropriate treatment locations and layouts are also suggested.

- Incursion by motor traffic into cycle lane at one site went from 65% to 19% with low level separators
- 19% to 0.1% when posts added



- Up to 171% increase in cycling in first year on measured sites
- 85% of residents said they were more likely to cycle as a result



- Cost effective protection improving subjective safety
- No one size fits all solution. Context and users need to be considered.
- Light segregation is generally successful at stopping motor traffic from entering cycle lanes

Issues



Design considerations



Products

Product	Protection	Cost	Durability	Aesthetics
Flexible post				
Lacasitos				
Armadillos				
Orcas				
Planters				
Defenders				
Wandorca				
Zipper				
Riley				
Fixed post				
Solid planter				
Barrier				

Case Study: Combinations



Case Study: Bus Stop Treatment



