

RTL WAVE Delineators

CIWD8700



What started as a fun side project to make bike lanes beautiful has blossomed into something much larger and more significant.

Creating Waves with the Wave Delineator.. International Feedback

The Wave Delineators were ideal for the day-long 2017 Philadelphia Free Streets protected bicycle lane demonstration project. The install and breakdown was less than 20 minutes and we had the public asking us all day when they were going to be seeing them around town. The materials were eye catching and gave a sense of separation without the time-consuming glue or drilling of typical temporary pilot materials.

Jeannette Brugger, AICP

Bicycle & Pedestrian Coordinator

*We have been using Wave Delineators at our **pop-up** bike park events all year. They are a great portable device for directing bicycle and pedestrian traffic. At our **Open Streets events** we have used them to separate general event traffic from our pop-up bike course - and they've worked like a charm. They are easy to transport and move and they are highly configurable. Many of our events require the course to be manipulated as the event goes on and the delineators allow us to make on the fly changes very quickly.*

The Wave Delineators grab people's attention. Every time we have used them people ask what they are and what they are used for. They want to touch and feel them. People can't keep their hands off them. And they just look cool.

We wouldn't have been able to host our pop-up bike park events at Minneapolis Open Streets without the use of the Wave Delineators. The Open Streets events draw thousands of bikers, walkers, and skaters, but in order for our pop-up bike park to be effective and safe we needed to keep event traffic separated from our course traffic. The Wave Delineators allowed us to do that effortlessly and without disrupting event traffic.

Devin Olson

Co-Founder of Minneapolis Bike Parks

*The wave delineators were a **visually-appealing separation method** for the pop-up separated bike lane and pedestrian bulb-out demonstration we conducted. They definitely contributed a wow factor to the project, which was designed to draw in passersby to provide input on our proposed design.*

Alex Ellis

Principal Planner

Dept. of Planning and Development

Wave Delineator: The Development

Why the Wave?

Saris Infrastructure, started with a simple but elegant wave aesthetic. The curvature and fluidness inherent in a wave help visually soften the lines between spaces. The “hard” divide that is created by bollards and cones creates a construction-zone feeling, making the space feel uncomfortable and inferior.

The continuous or rolling rhythm of a wave conveys a feeling of motion, calmness and engagement that is amplified by the slower speeds at which cyclists are traveling. And by layering the waves, the depth is enhanced; allowing greater visibility for both adjacent drivers and bicyclists.

After settling on the aesthetic, the work to make the product functional began. Understanding all the various use cases became critical. With guidance and expertise from Los Angeles DOT engineers and planners, Saris targeted the features that were essential to making the delineator easy to use.

Features like collapsibility, reflective decals, light weight, and chamfered (rounded) edges helped address common complaints of existing products. Our delineator had to not only look good but be intuitive to use too.

Following a number of trials - both one day events and month long cycle lane trials, Saris collected a trove of overwhelmingly positive feedback about how people felt about the product. Comments such as, *“I like that we are open to hosting pop-ups like this for experimentation and feedback. I loved the wavy delineators (as opposed to soft-hit posts),”* were common from both vehicle drivers as well as cyclists.

In addition to the positive comments specifically about the product, we noticed a theme developing. Many of the comments alluded to the fact that the delineators made them enjoy experiencing the bike lane in a way that seemed different from normal pop-ups. *“A huge smile formed on my face when I hit the wavy section. These are great!”* came from a cyclist during the San Jose pilot.

From there, the rest is history. Enjoy photos from New Zealand and around the world.



Innovating Streets

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Tactical Urbanism Projects



The Wave Delineators proved to be a valuable tool in our toolkit for demonstrating and evaluating temporary reconfiguration of streets to improve safety for biking. Easy setup and removal is a huge benefit for both large and small scale projects.

Dwight Norton
Urban Mobility Coordinator
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Cycleway Delineators



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Supporting Active Travel



We used the Wave Delineator for a “pop-up” protected bike lane for one week in San José, California. Our bike lane featured five different devices to separate moving traffic from bicycles. In a survey of users, the Wave Delineators were mentioned frequently as aesthetically pleasing and highly visible. The success of the demonstration bike lane led to the permanent installation of a network of protected bike lanes in our downtown.

**Peter Bennett | Bike and Pedestrian Program
Department of Transportation**

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Creating Space & Re-Purposing Streets



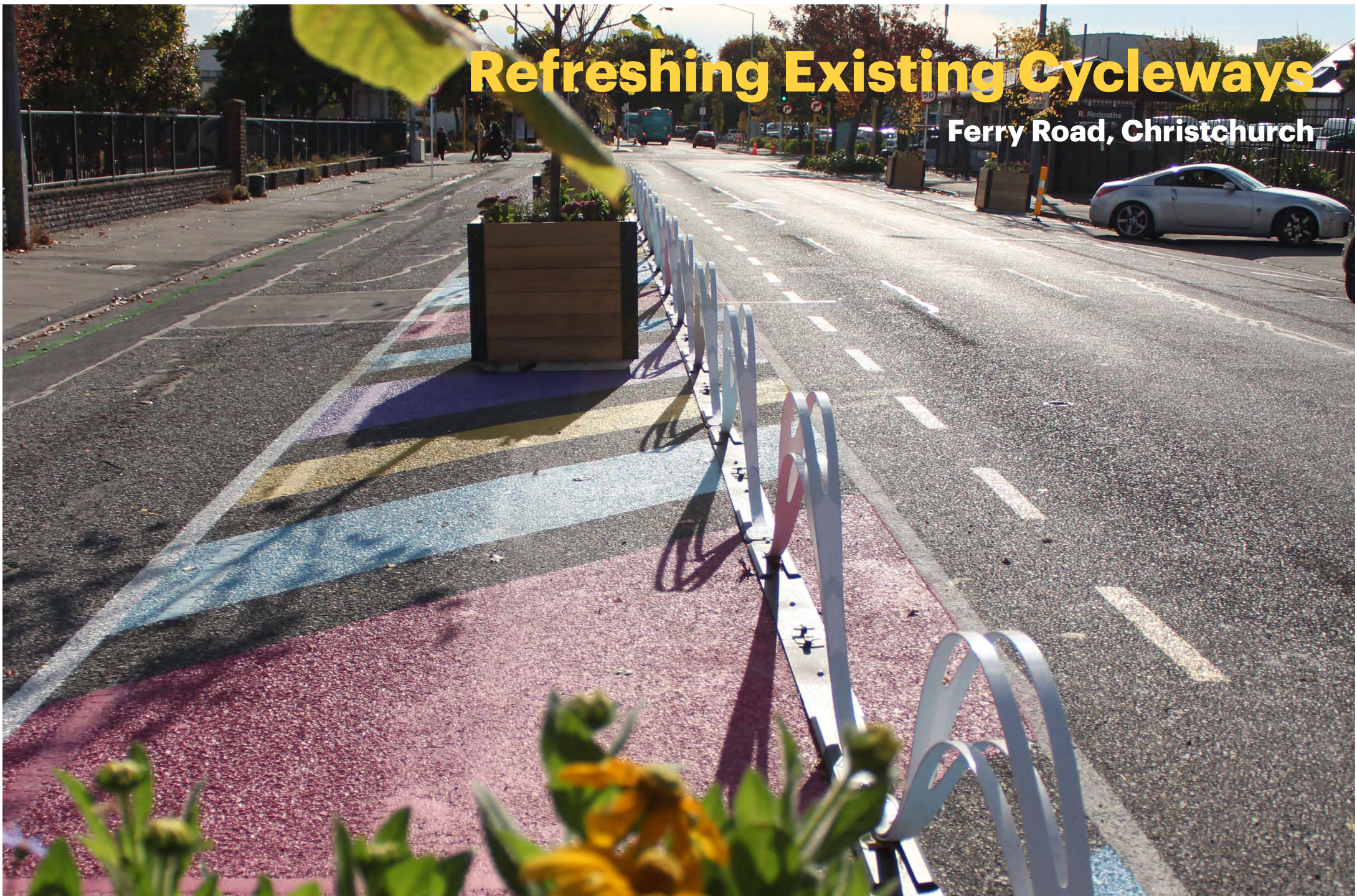
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Refreshing Existing Cycleways

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Trialling Street Layouts



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Infrastructure for Cycling



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Markets & Pop-up Events

...I've witnessed the Wave Delineator in action and even used it as the basis for research proposals in support of active transportation and enhancing access to bikeable public places, especially farmers markets. The work of Wave Delineator enables people safer access to marketplaces, which enhances the health benefits of local foods as it supplies communities with easily deployable solution to safer streets for bicyclists.

Alfonso Morales, PhD

Professor, Department of Planning and Landscape Architecture

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Separation of People and Vehicles



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Sporting Events

Freestanding
Interlocked for stability
Very fast to setup



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