

Innovative Bike Infrastructure in the San Diego Region

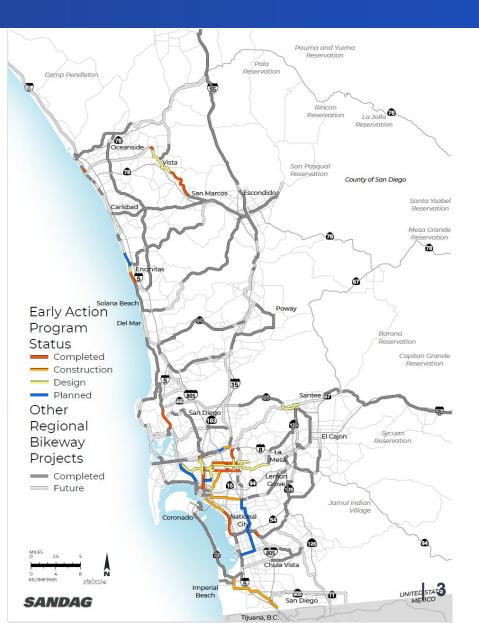
Chris Kluth Regional Planning Manager – Active Transportation



Early Action Program Background

What is EAP?

- The Early Action Program is \$200 million commitment from SANDAG Board of Directors toward regional network of all ages and abilities bicycle and pedestrian projects
- Full range of facility types to match context and constraints





Case Study: Georgia Meade Bikeway

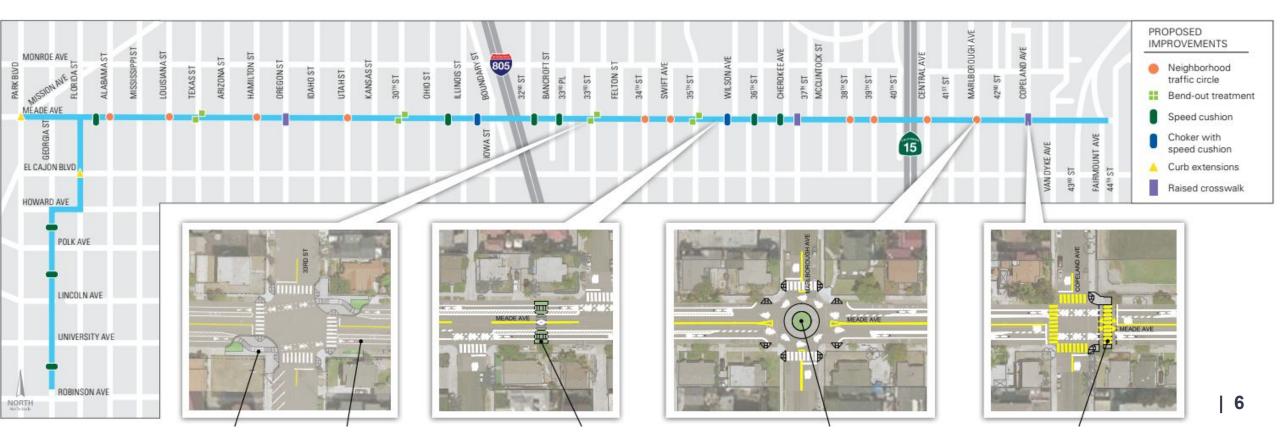
Project Features: Bike Bendouts, Bike Friendly Intersections, Neighborhood traffic circles, Sandy Calmers

Original Condition



Proposed Changes

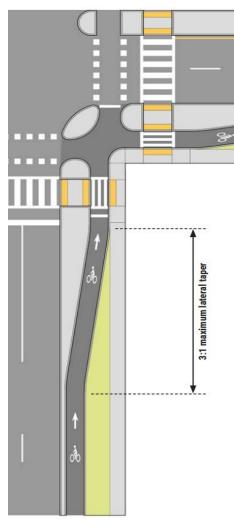
- Intensive traffic calming strategy to reduce speed and volume
- Implement bendouts, chokers (Sandy Calmers), neighborhood traffic circles, raised crosswalks at schools



Bendouts

- Design guidance from MASSDOT
- High volume of right turns
- Overall improved visibility



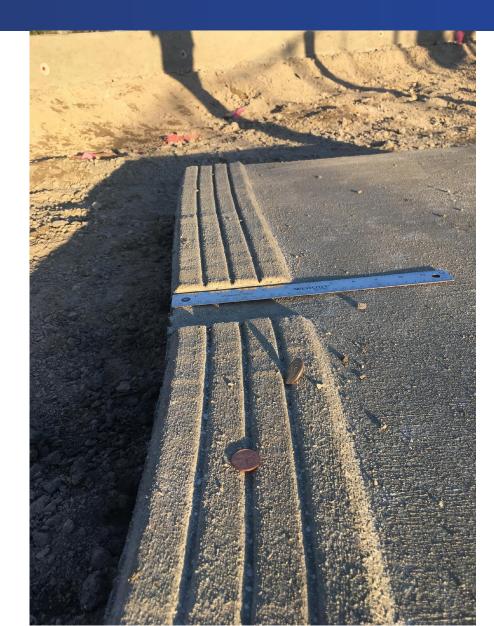


Challenges During Design

- ADA Compliance
- Advanced signal/loop detector
- Drainage

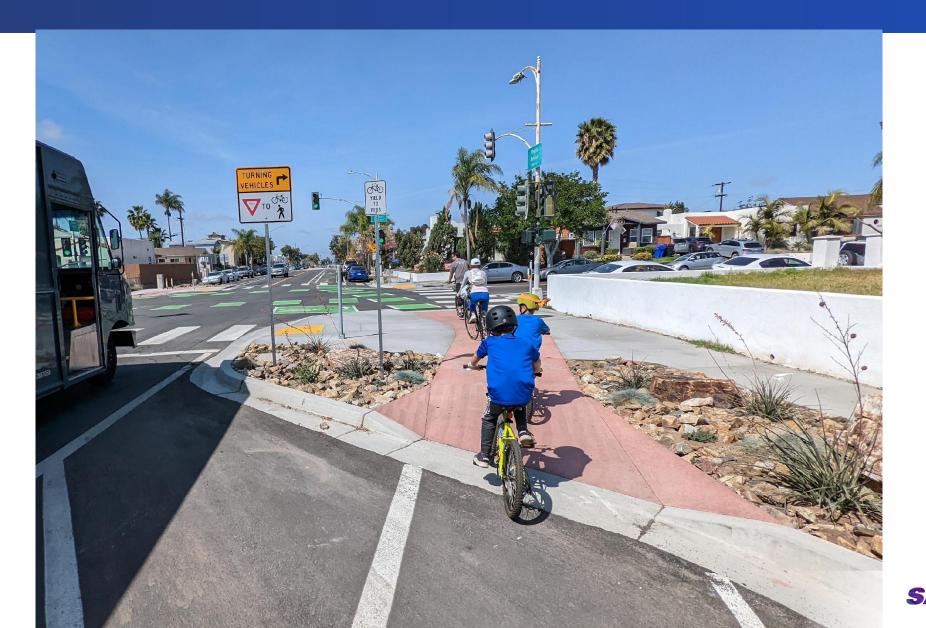


Challenges During Design





35th and Meade



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35th and Meade



Neighborhood Traffic Circle

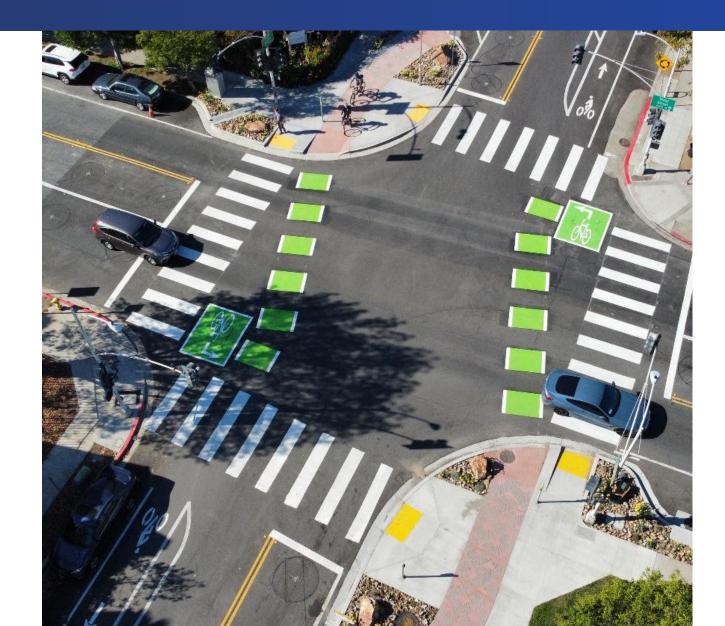
- Reduce vehicle speeds and discourage cut-through traffic
- Splitter islands and circle apron accommodate emergency vehicles and large trucks
- Facilitate future landscaping



Speed Cushion with Edge Islands (Traffic "Chokers")



Georgia – Meade Bikeway: Post Implementation



Bike Ridership 1 28%

Pedestrian Travel 1 24%

Motor Vehicle Travel **1** 24%

Motor Vehicle Speeds 13%



Case Study: Landis Bikeway

Project Features: Contraflow connection, Bike Friendly Intersections, Neighborhood traffic circles, Grade separation

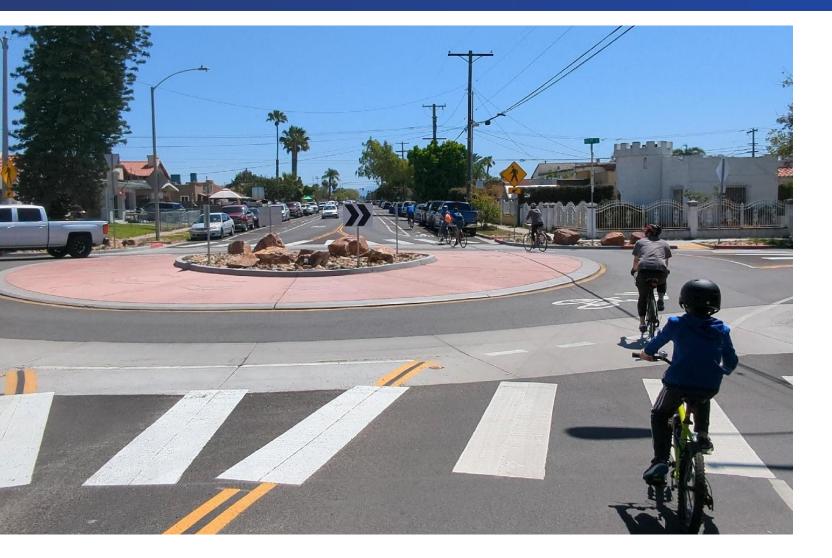
Georgia – Meade & Landis Bikeways



Contraflow Connection



Landis Bikeway: Post Implementation



Bike Ridership \bigcirc 34%Pedestrian Travel \bigcirc 13%Off-peak P_{85} Motor Vehicle
Segment Speeds \bigcirc 10%
from 27 mph to 22 mph



Upcoming Bikeways

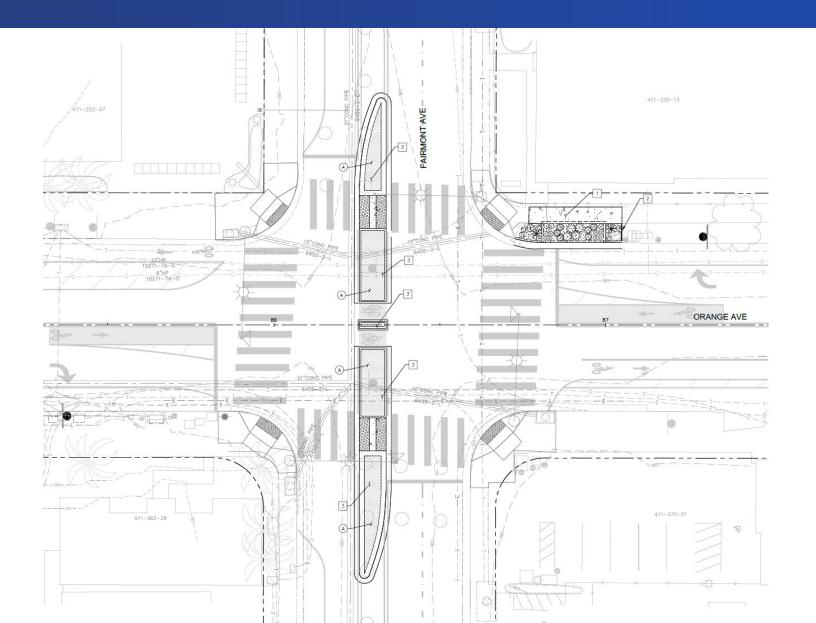
Orange Bikeway



Traffic Diverters

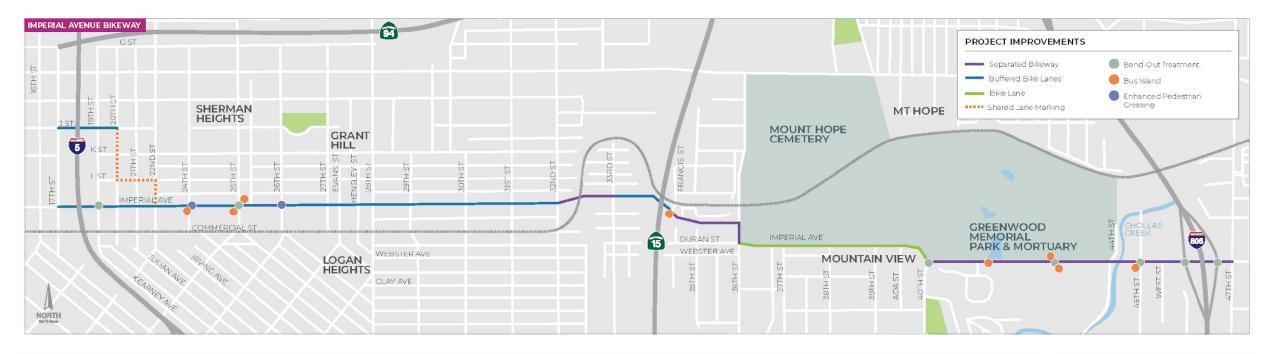


Traffic Diverters



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Imperial Bikeway



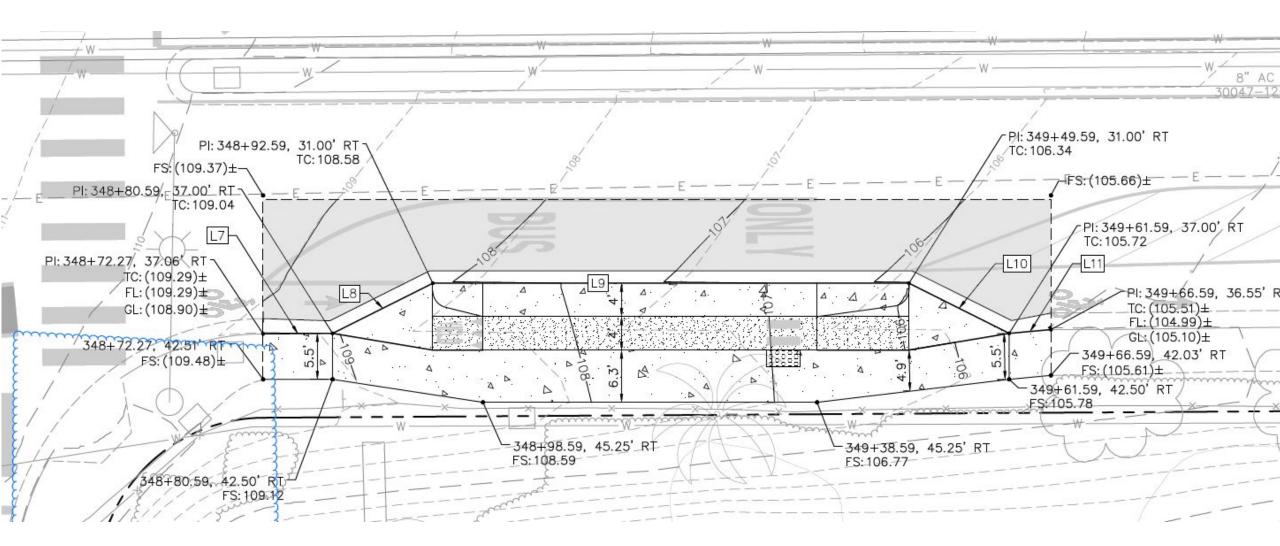


Bus Island Example (Burnaby, BC)

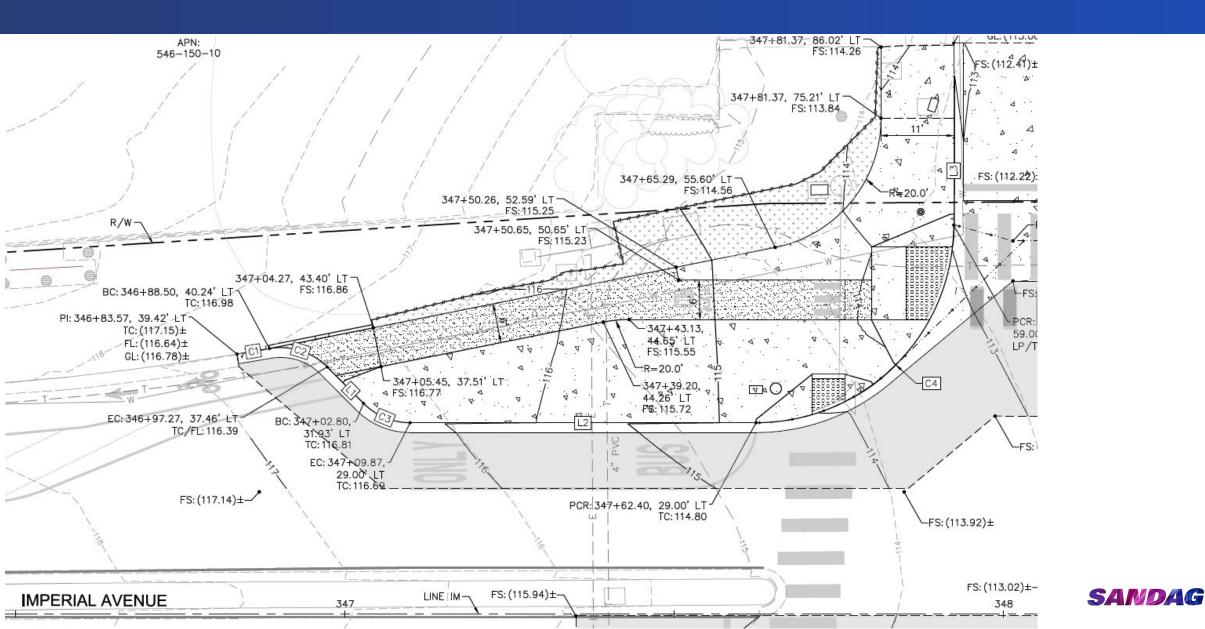


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Bus Island Constrained Condition



Bulb-out and Bus Island Combo



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