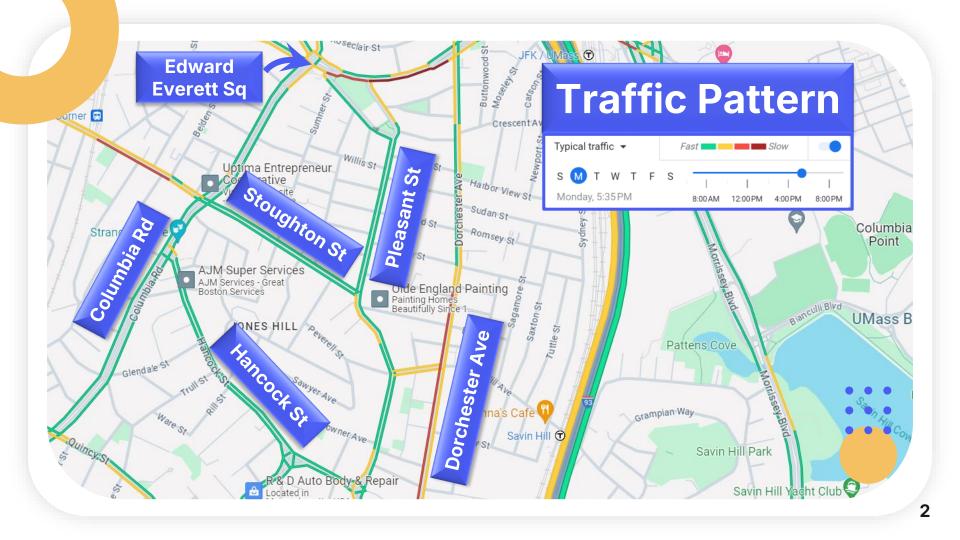




Enhancing Traffic Circulation and Creating Low-Stress Bicycling Routes

A Comprehensive Plan for the Pleasant Street Neighborhood in Dorchester, MA

Presented by: NatDave



Main Objectives

1

Get through traffic out of the neighborhood

Drivers whose origin and destination are **miles away** from the neighborhood must **NOT** be allowed to drive through the neighborhood.

2

Create low-stress bicycling streets

Provide a **safe**, **comfortable**, and **enjoyable** experience for cyclists, minimizing their exposure to **high traffic volumes and speeds**.

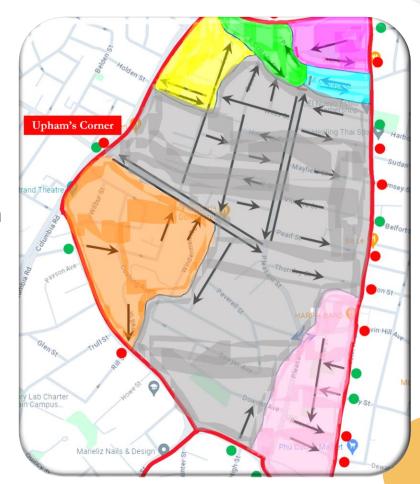
3

Maintain easy access to homes

Any changes to the road network should not significantly **inconvenience** those living in the neighborhood.

Sectioning the Neighborhood

- Local traffic enters and exits the neighborhood from the same section
- □ All blocks within the neighborhood should be accessible by residents
- ☐ Yikes! Eastbound through traffic can still cut through but there is a low demand for that.



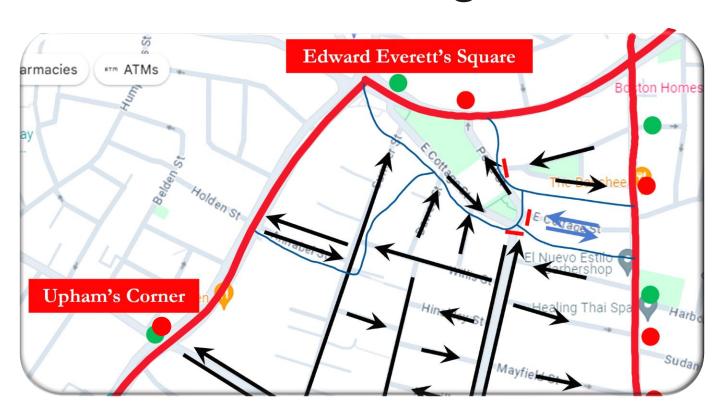
Full Traffic Circulation Plan

Legend

- Exit point
- Entry point
- Existing traffic flow direction
- New traffic flow direction
- Street closure
- Diagonal diverter



Northern Region





Low-stress Bicycling





Making Pleasant St pleasant for cyclists with advisory lanes



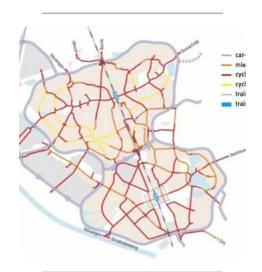


Dutch inspiration





Principle of Filtered Permeability



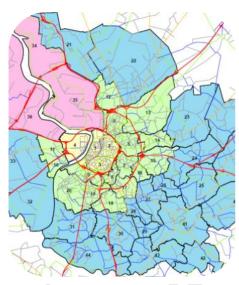
Houten, NL

Population: ~50,000



Groningen, NL

Population: ~245,000



Leuven, BE

Population: ~105,000

Street Closure (The Hague)





Turning loop

(52°04'14.0"N 4°18'58.9"E)

Diagonal Diverter (The Hague)





https://nacto.org/publication/urban-bikeway-designquide/bicvcle-boulevards/volume-management/

Advisory Bike Lanes (Utrecht)





