

# E.165 St

Jerome Ave to Melrose Ave  
Corridor Safety Improvements

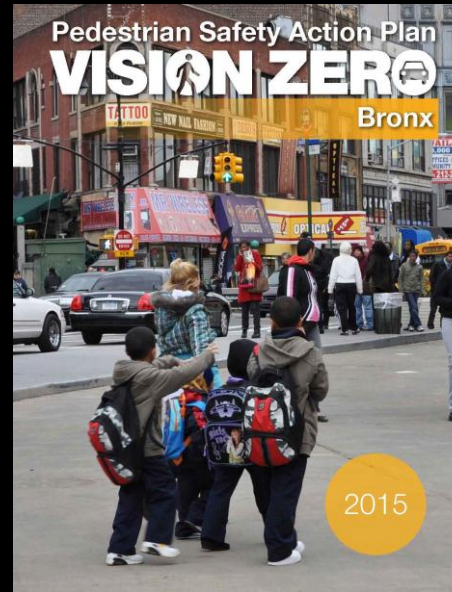
2015



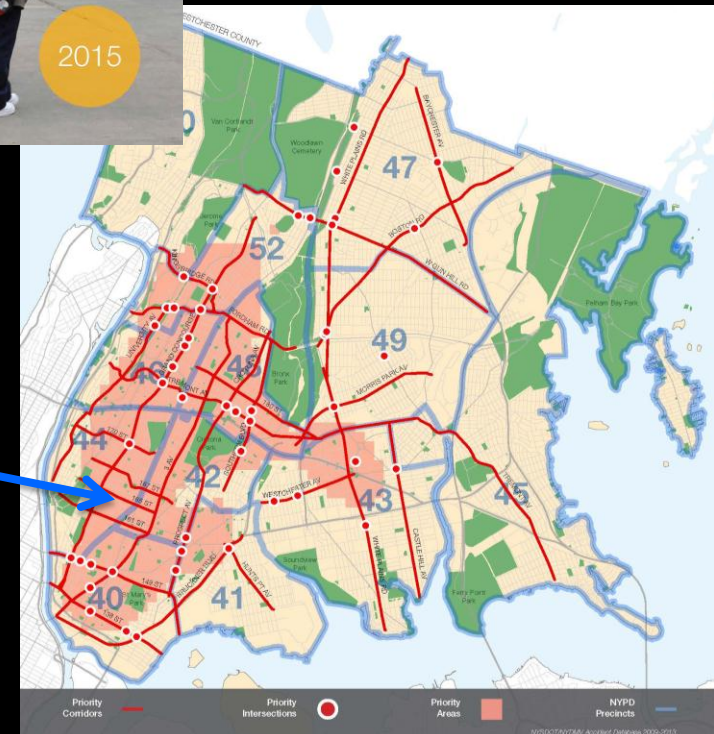
# Why E. 165<sup>th</sup> St? Vision Zero Priority Corridor

## ■ Vision Zero

- Multi-agency effort to reduce traffic fatalities in NYC
- Borough Action Plans released in 2015
- Priority Intersections, Corridors, and Areas identified for each borough
  - E. 165 St identified as a priority corridor in the Bronx



## Bronx Priority Map





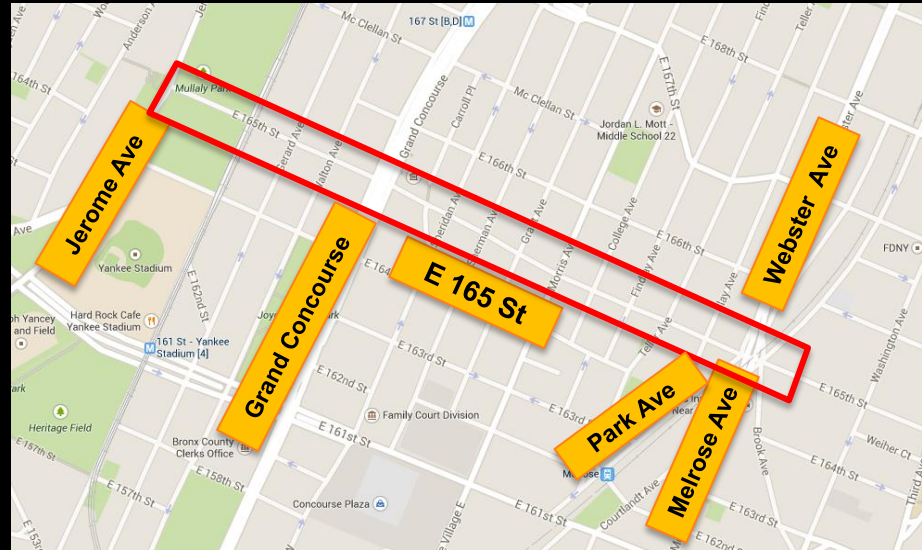
# Need: Why E. 165 St?

## Vision Zero Priority

- E. 165 St a Priority Corridor with 23.1 Killed or Severely Injured (KSI) crashes per mile
  - Top 10% of corridors in the Bronx
- Two pedestrian fatalities at Grand Concourse and E 165 St since 2009

## Senior Area

- Within the East Concourse Senior Pedestrian Focus Area (SPFA)



### E 165 St - Jerome Ave to Melrose Ave, BX

#### Injury Summary, 2009-2013 (5 Years)

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	37	5	2	7
Bicyclist	6	0	0	0
Motor Vehicle Occupant	184	11	0	11
Total	227	16	2	18

Fatalities, 01/01/2009-2/2/2015 : 2

Source: Fatalities: NYCDOT  
Injuries: NYSDOT  
KSI: Persons Killed or Severely Injured

Pedestrian:	2
Bicyclist:	0
Motor Vehicle Occupant:	0

# Need: E. 165 St Crash Types

## E. 165 St and Grand Concourse

- Failure to Yield Crashes
  - 50% of the total pedestrian crashes were failure to yield crashes
    - More than 50% higher than the borough average
- Left Turn Motor Vehicle Crashes
  - 28% of all motor vehicle crashes were left turn crashes
    - Nearly 3 times more than the borough average



# Need: Why E.165 St?

## Existing Use

Traffic data and analysis demonstrates:

- High pedestrian volumes crossing E. 165 St at Grand Concourse
- High percentage of vehicles turn left onto Grand Concourse
- Peak volumes on E. 165 St only necessitate one travel lane in each direction





# Need: Why E.165 St?

## Existing Configuration

Two-way—three widths

- Jerome Ave to Walton Ave—35 ft. wide, one lane in each direction
- Walton Ave to Sherman Ave—75 ft. wide, two lanes in each direction
- Sherman Ave to Melrose Ave/Park Ave/Webster Ave—30 ft. wide, one lane in each direction



# Need: Why E.165 St?

## Connection possibilities with the existing Bicycle Network

- Current north/south bike routes cross E. 165 St at:
  - Jerome Ave
  - Gerard Ave
  - Walton Ave
  - Grand Concourse
  - Melrose Ave/Park Ave



# Existing: Walton Ave to Sherman Ave

- 75 ft. wide
  - Two travel lanes in each direction with extra wide lane widths
    - Lack of lane designation encourages unsafe behavior
      - Speeding, swerving, and double parking





# Proposed: Walton Ave to Sherman Ave

## Redesign street to accommodate appropriate traffic volumes

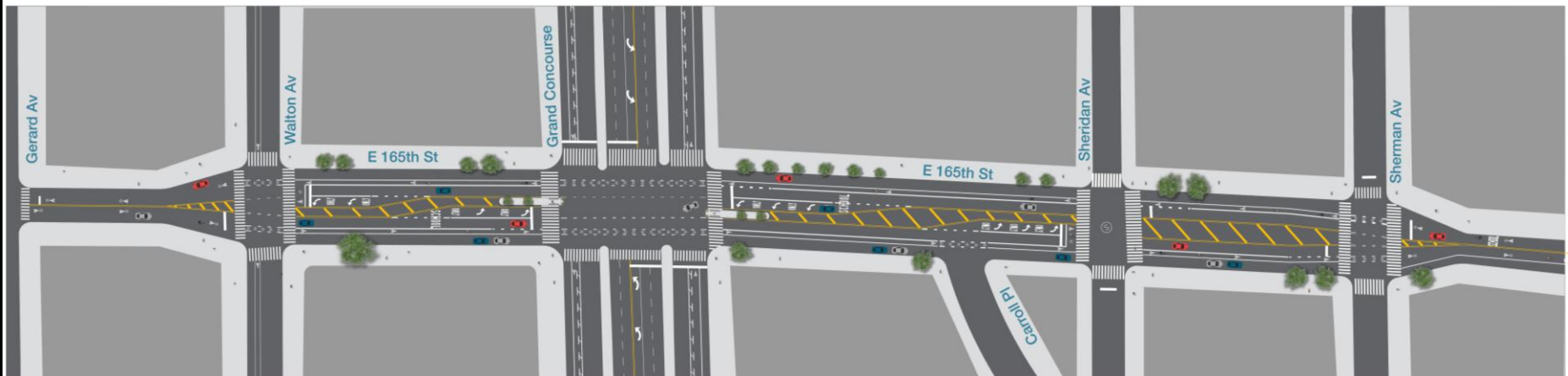
- Add flush median and left turn bays at Grand Concourse, Walton Ave, and Sheridan Ave

## Increase pedestrian safety

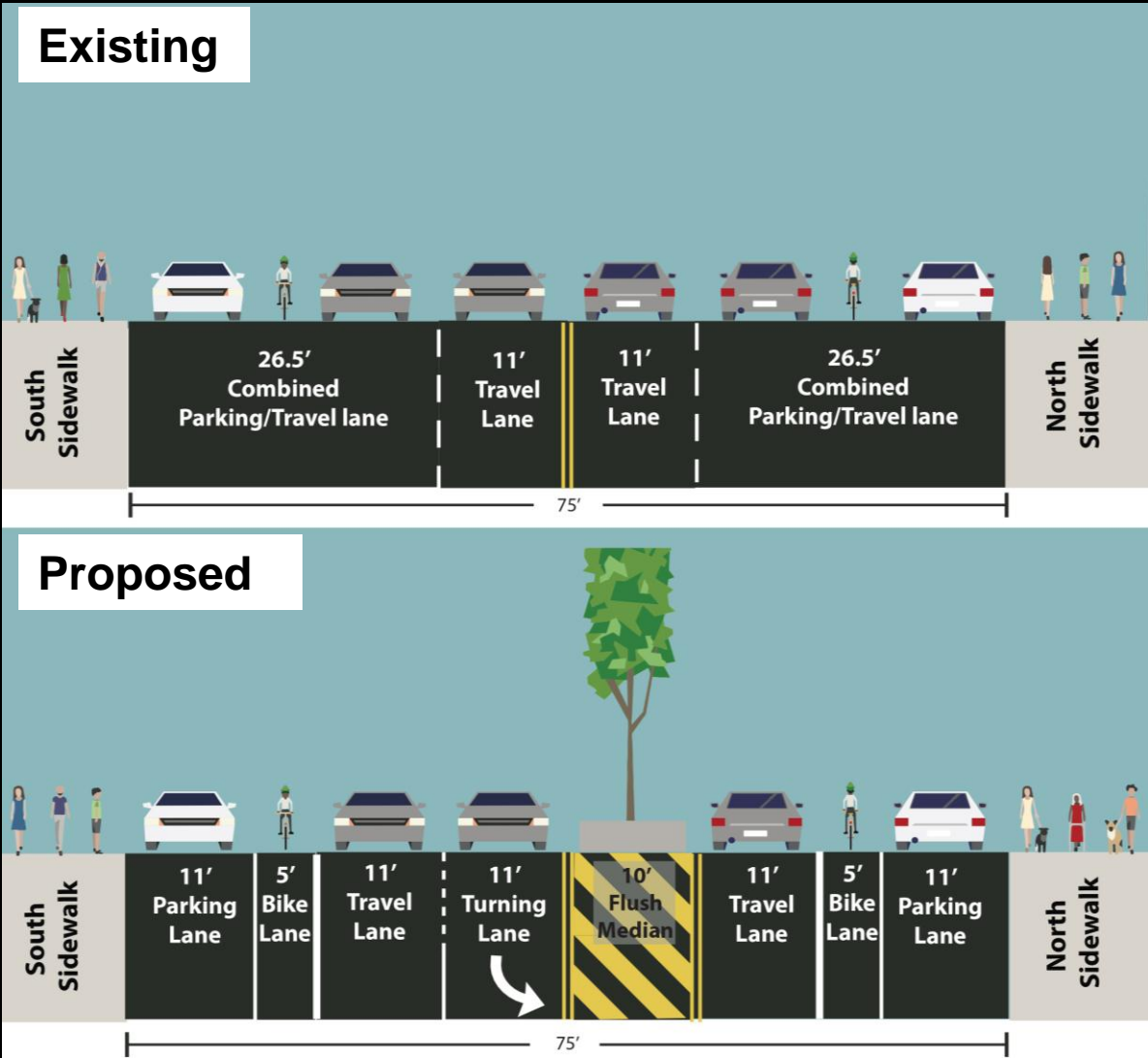
- Construct pedestrian refuge islands on E. 165 St at Grand Concourse
- Add high visibility crosswalks to increase pedestrian visibility

## Increase Bicycle Network connectivity

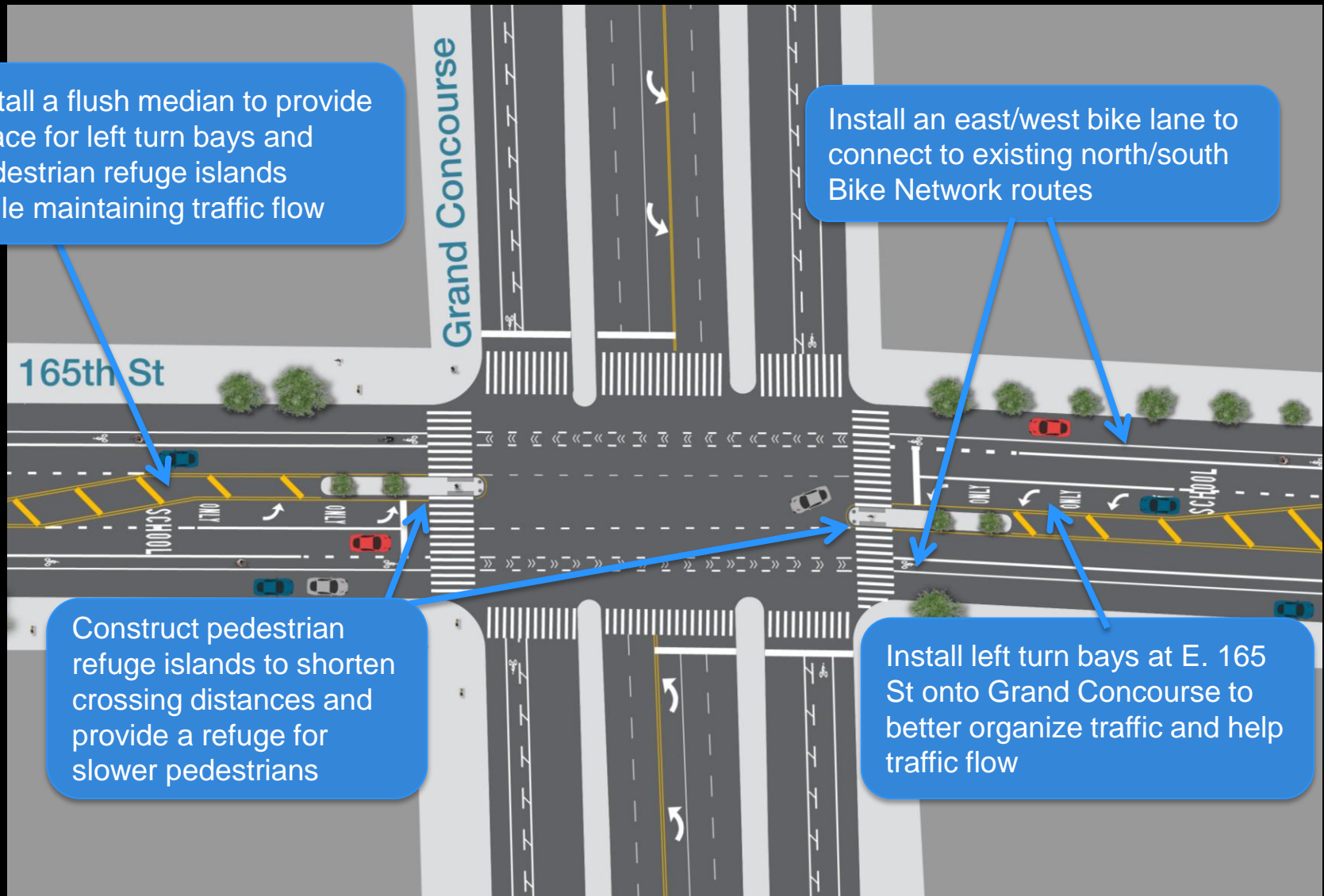
- Install bike lanes to connect to existing north/south bike routes at Grand Concourse and Walton Ave



## Proposed: E. 165 St and Grand Concourse



# Proposed: E. 165 St and Grand Concourse





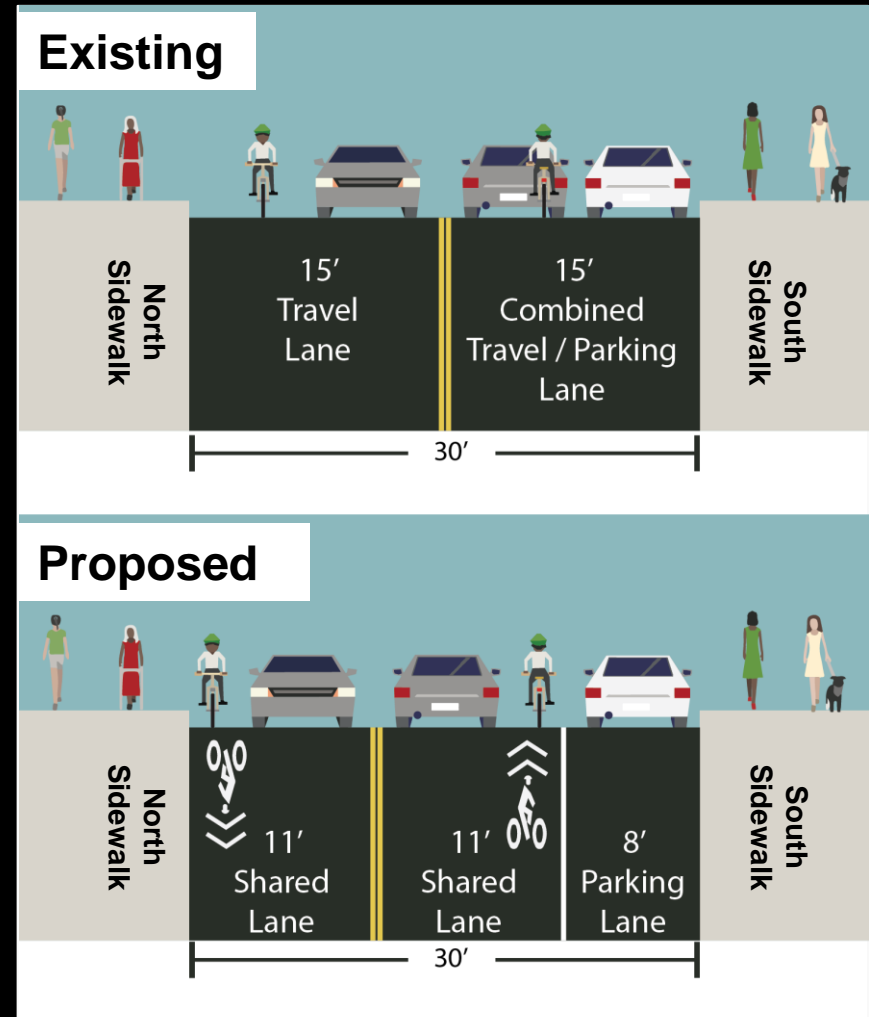
# Existing: Melrose Ave to Sherman Ave

- 30 ft. wide
- No Parking Anytime on north side of street
- Travel lanes not properly aligned, vehicles traveling over the centerline
- Existing north/south bike routes at Melrose Ave and Park Ave



# Proposal: Melrose Ave to Sherman Ave

- **Realign double yellow centerline and add parking lane stripe**
  - Better organize traffic and help traffic flow
- **Upgrade crosswalks to high visibility**
  - Increase pedestrian visibility
- **Install shared lane bicycle markings and guide signs**
  - Increase Bicycle Network connectivity





# Example of Shared Lane

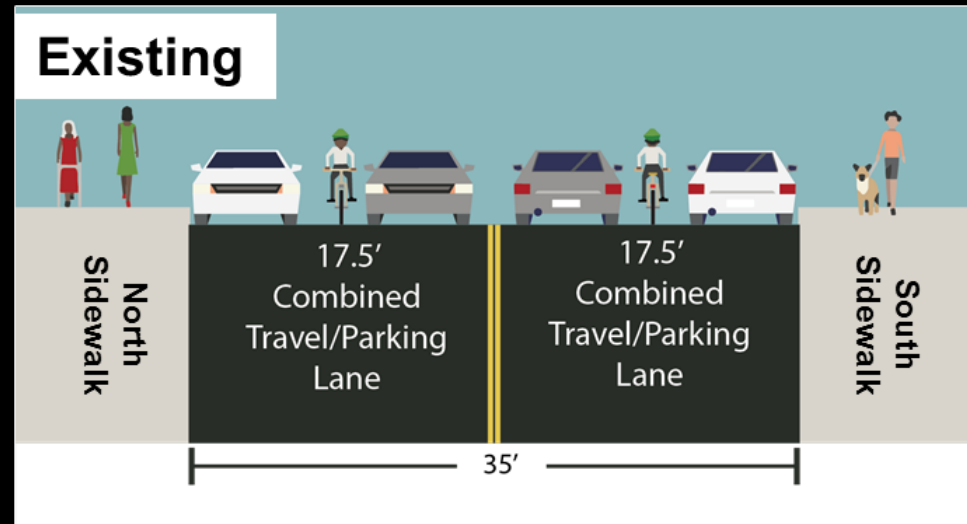
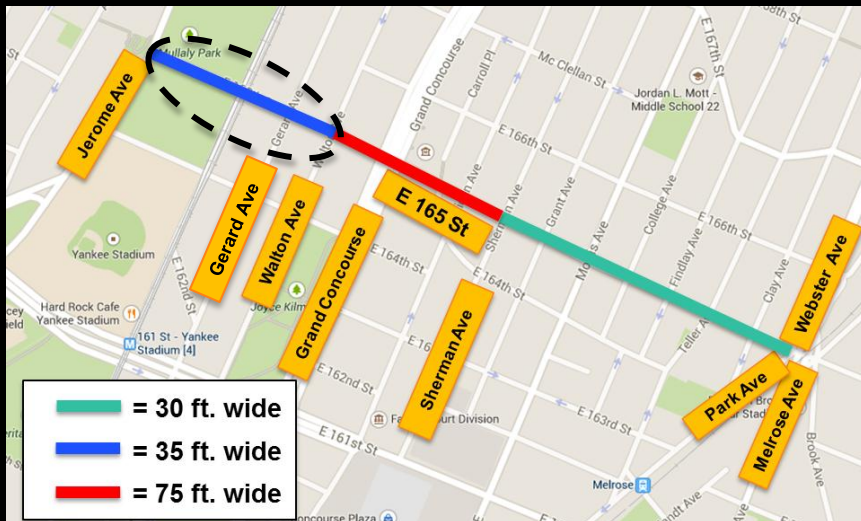


Crotona Ave & Fordham Rd



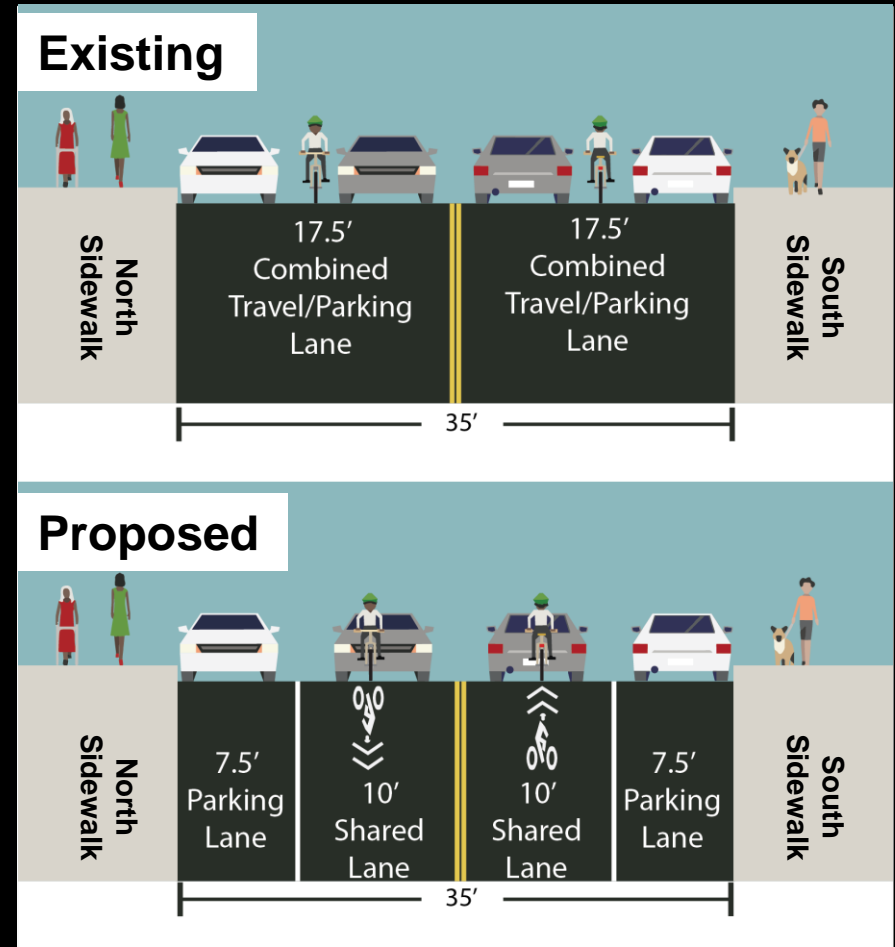
# Existing: Jerome Ave to Walton Ave

- 35 ft. wide
- Parking on both sides of the street
- Existing north/south bike routes at Jerome Ave, Gerard Ave, and Walton Ave



# Proposal: Jerome Ave to Walton Ave

- **Add parking lane stripe**
  - Better organize traffic and help traffic flow
- **Upgrade crosswalks to high visibility**
  - Increase pedestrian visibility
- **Install shared lane bicycle markings and guide signs**
  - Increase Bicycle Network Connectivity



# Benefits of Proposal

## Benefits

- **Better organize traffic**
  - Proposed design is designed for appropriate volumes
  - Addition of left turn bays will better organize traffic and help traffic flow
- **Reduce speeds and inappropriate driver behavior**
  - New markings will visually constrain roadway for drivers and reduce speeds
- **Reduce Crashes**
  - Pedestrian refuge islands at Grand Concourse and E. 165 St reduces crossing distances for pedestrians and provides a refuge for slower pedestrians
  - Dedicated left turn bays will reduce left turn crashes
  - Lower speeds reduce the likelihood of injury crashes and fatality crashes
- **Increase Bicycle Network Connectivity**
  - Installing east/west bike routes on E. 165 St will allow cyclists to connect to five existing north/south routes



Questions?

**Thank  
You**

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