

# One Way to Two Way Street Conversion Charrette Work in Progress

October 24th, 2013

City of New Haven

Department of Transportation, Traffic and Parking

# Process







#### Project Process



Advisory Committee Meetings

Data Collection

Compile Prior Studies and Mapping

Stakeholder Interviews

Three-Day
Charrette

Follow-up on Work-in-Progress









#### What Makes the Charrette Unique?

#### Participants work in a series of short feedback loops



In charrette, everyone interested helps out in a team effort that incorporates their unique contribution

public review





concepts

alternatives

**Professionals** provide design and strategic input



refinement















#### Charrette Schedule

#### City of New Haven Downtown One-Way to Two-Way Conversion Study Design Charrette

Time	Monday Oct.21st	Tuesday Oct. 22nd	Wednesday Oct. 23rd	Thursday Oct.24th
10:00am 11:00am		Hands-On Session New Haven Free Public Library Design Studio	Open Design Studio	Open Design Studio
12noon				
1:00pm				
2:00pm				
3:00pm		Open Design Studio	Open Design Studio	Design Consultant Presentation preparation
4:00pm				
5:00pm				
6:00pm				
7:00pm	6:30 pm Project Overview/ Educational Session	Hands-On Session Chapel West Special Services District 1205 Chapel Street	Open Design Studio	Work-in-Progress Presentation
8:00pm			Work Pin-up Session	

Key public meetings open studio

The public is welcome to stop by the design studio at any time. The design studio is located in the New Haven Free Public Library, lower level, in the performance arts space.







#### Day 1: Tours and Education

Study area tours and a kick-off presentation









#### Day 2: Public Vision

The team meets with key stakeholders and develops concept alternatives public hands-on visioning workshop









#### Day 3: Design and More Public Input

The team works to develop options and stakeholders give input and feedback at an evening pin-up session









## Day 4: Refining Plans and Summary

Team refines and synthesizes concepts









#### What People Said

#### • Two Way Street versus One Way Street Issues:

- Lots of Public Support in Favor of Two-Way Streets
- One-way Streets Cause Faster Vehicular Travel Speeds
- New Haven One-Way Streets are Confusing to Navigate and Add Commute Time

#### Bike Issues:

- Cyclists Ride Wrong Way down One-Way Streets for Convenience/Safety
- Education Needed for Drivers, Pedestrians and Bicyclists
- Lack of Connectivity between Train Station, Medical District, Wooster Square, and Downtown
- Court and Hillhouse Two-Way for Bicyclists

#### Pedestrian Issues:

- Pedestrians Crossing Elm Street Mid-Block between High Street and College Streets
- > Pedestrians Crossing Church Street Mid-Block between George & Elm
- Pedestrians Crossing Grove Street Mid-Block
- Pedestrian Accidents at MLK Boulevard and South Frontage Road
- Lack of Connectivity between Medical District and Downtown







## Recommendations







#### Recommendations

- Two-Way Streets
- Simplify Bus Routes
- Expand Bike Network
- Improve Pedestrian Safety





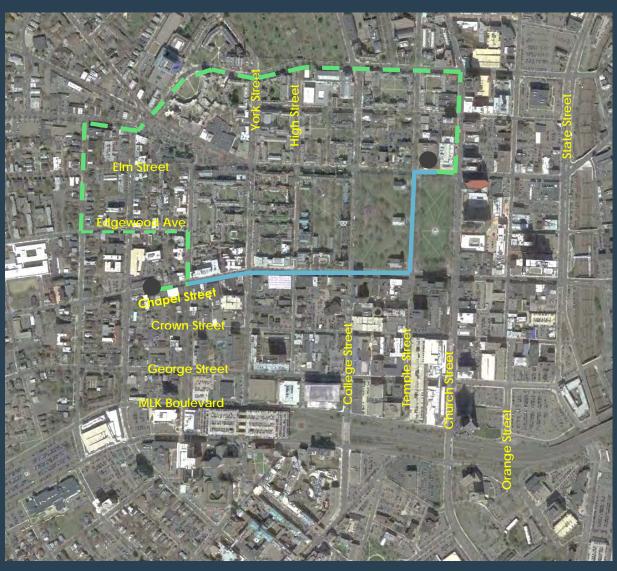
# Two-Way Streets







## Wayfinding

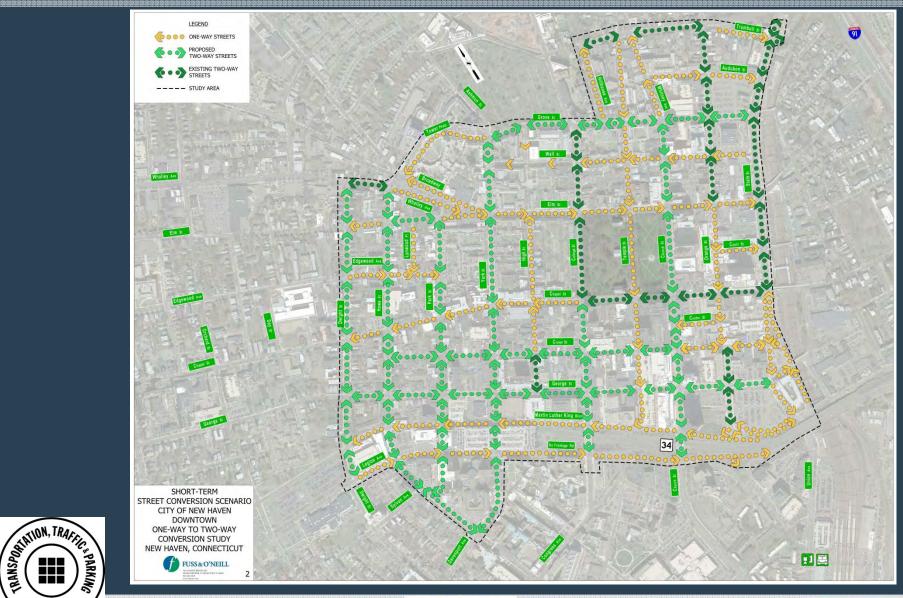








## Proposed Network



Department of Transportation, Traffic and Parking





#### Two-Way Loop







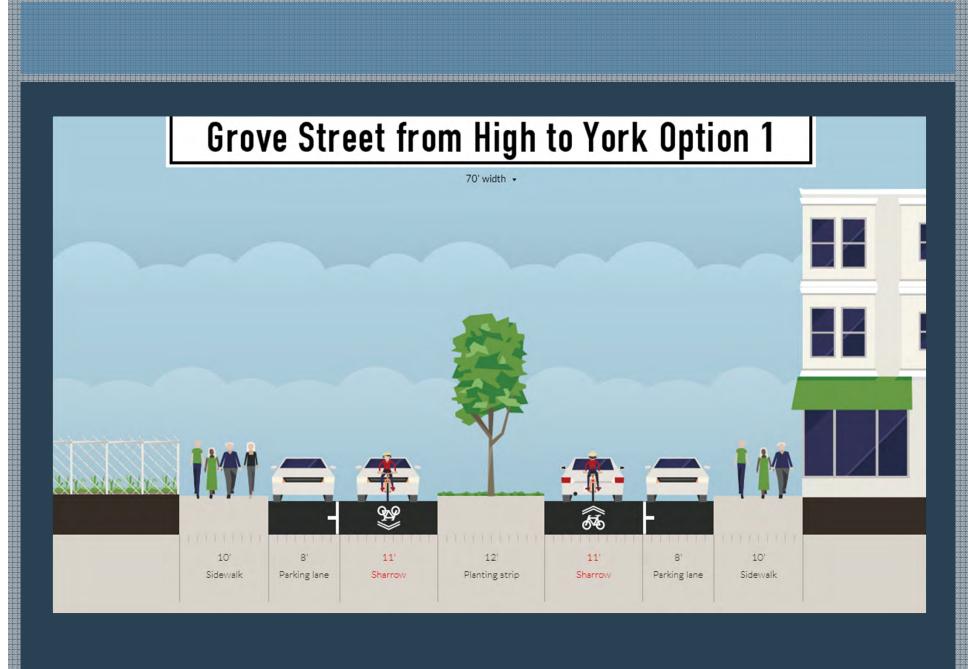
















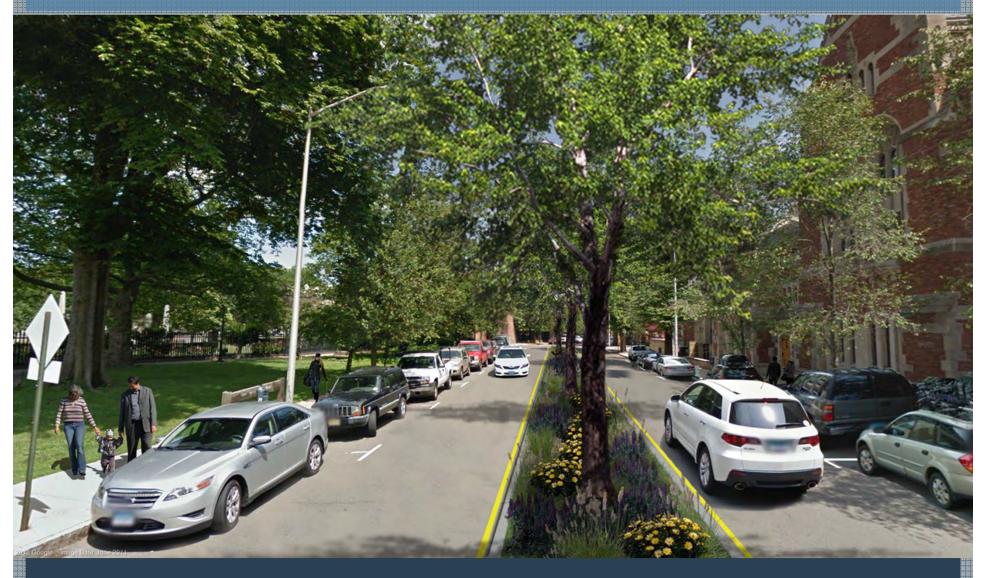














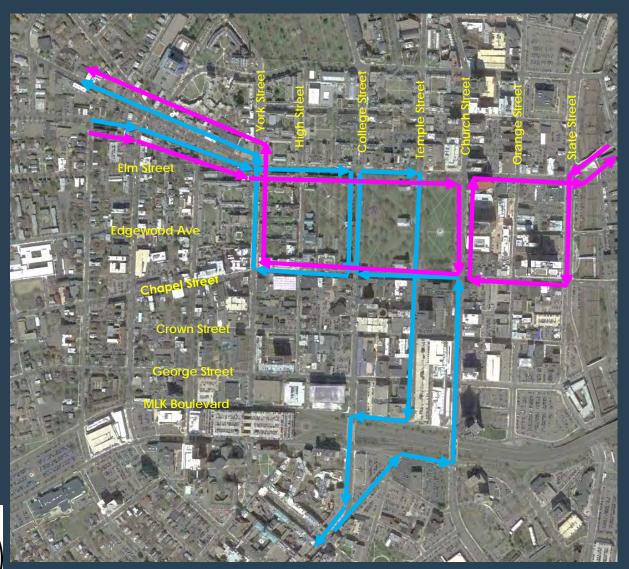
# Simplify Bus Routes







## Conceptual Transit Routes





**CT Transit B** 



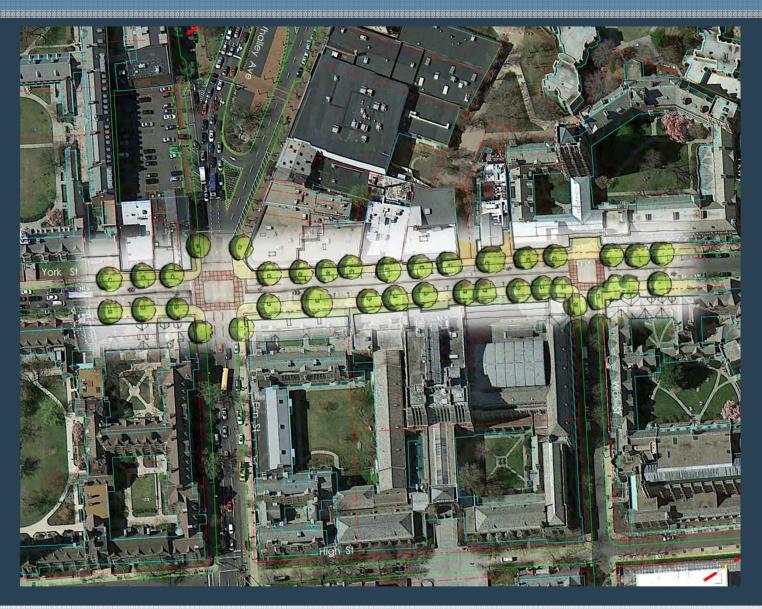
CT Transit D







#### York Street





#### York Street









#### York Street Proposed





#### York Street









#### York Street

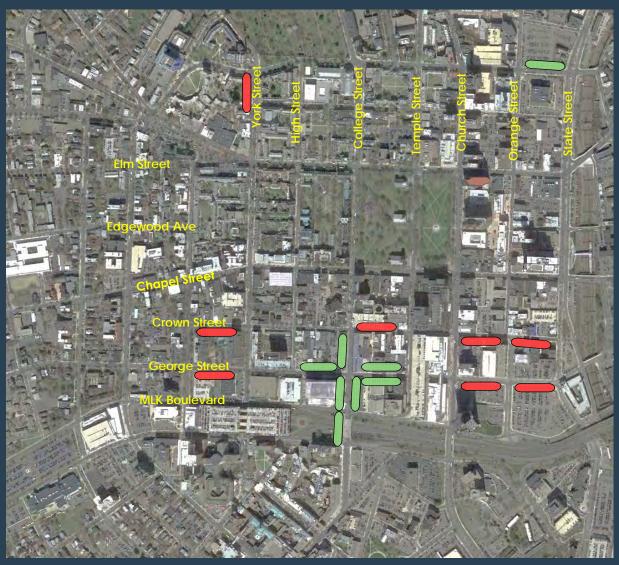








## Potential Parking Changes



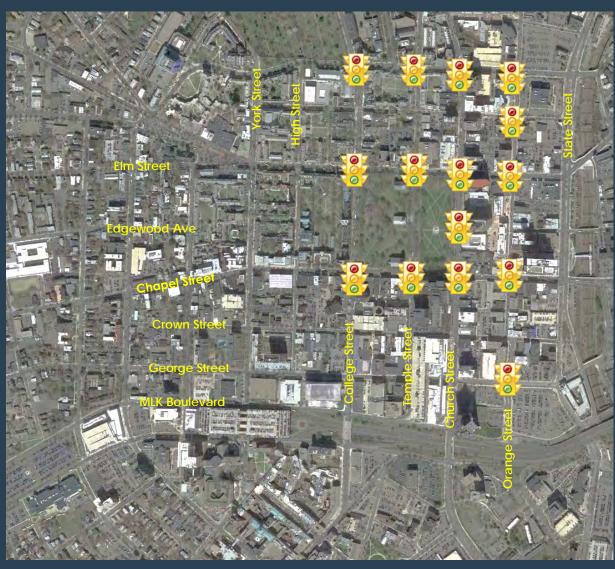








## City Traffic Signal Project









# Expand Bike Network

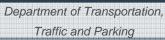






## Bicycle Facilities









#### Space between buildings as an asset

- Parking
  - Parallel
  - Bicycle
- Transit Stops/Amenities
- Loading Zones
- Wider Sidewalks
- Street Furniture
- Streetscape
- Stormwater
  - Rain Gardens
  - Bioswales
- Bike Facilities
  - Bike lanes
  - Cycle Tracks
  - Multi-use Paths
- Medians
  - Turn lanes
  - Planting opportunities



Photo by Dan Gallagher, Charlotte DOT







#### Bike Facilities



#### **Shared Lanes:**

- Most appropriate for streets ≤25 mph
- Typically installed in middle of street

#### Bike Lanes:

- 5-6' wide
- Between vehicle lanes & parking
- Most appropriate for streets25-35 mph

Images from NACTO Urban Bikeway Design Guide

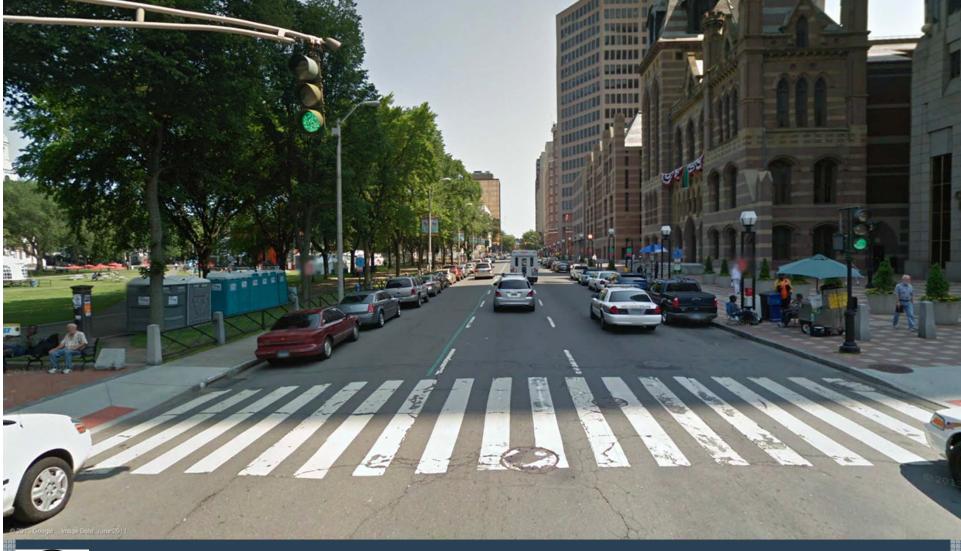








#### Church Street

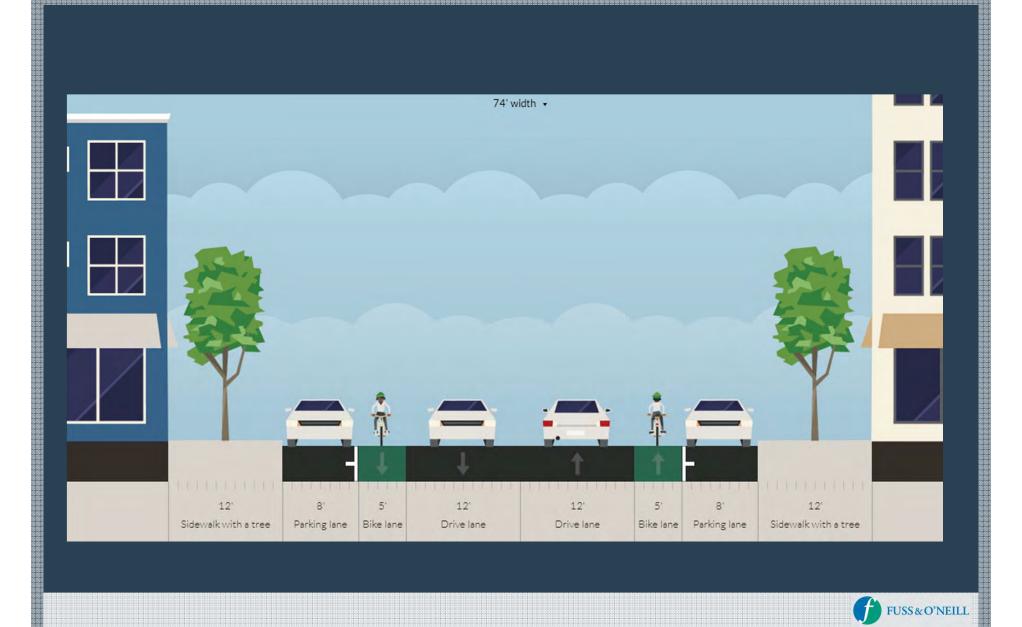




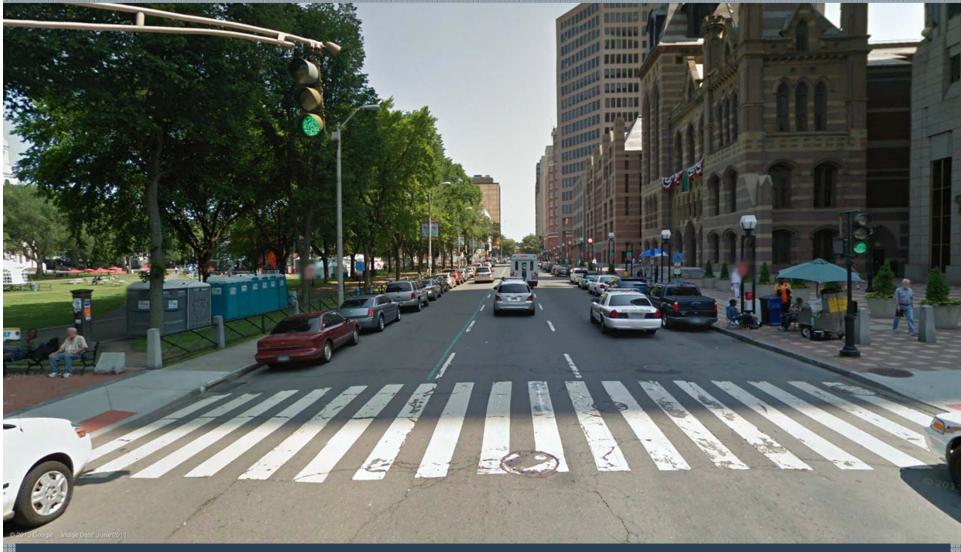




#### Church Street Proposed



#### Church Street

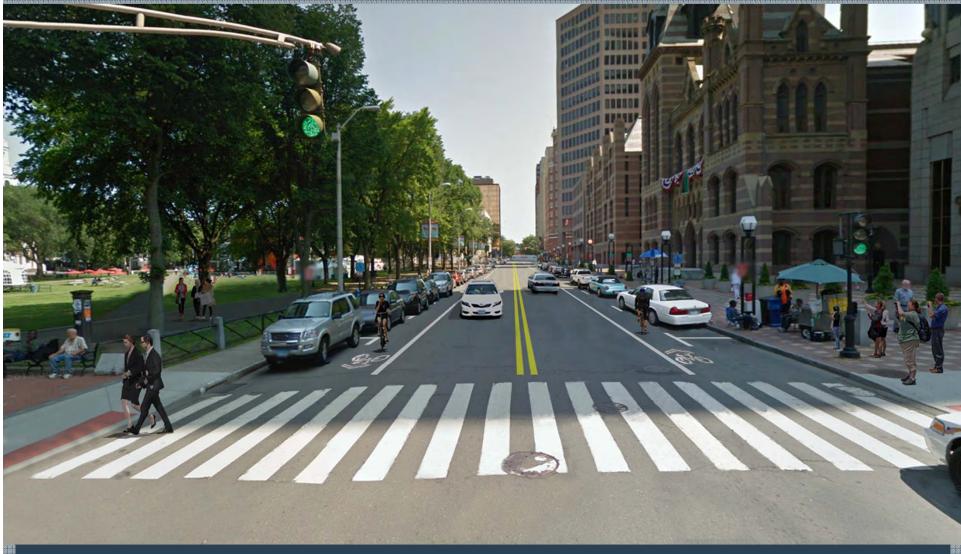








#### Church Street









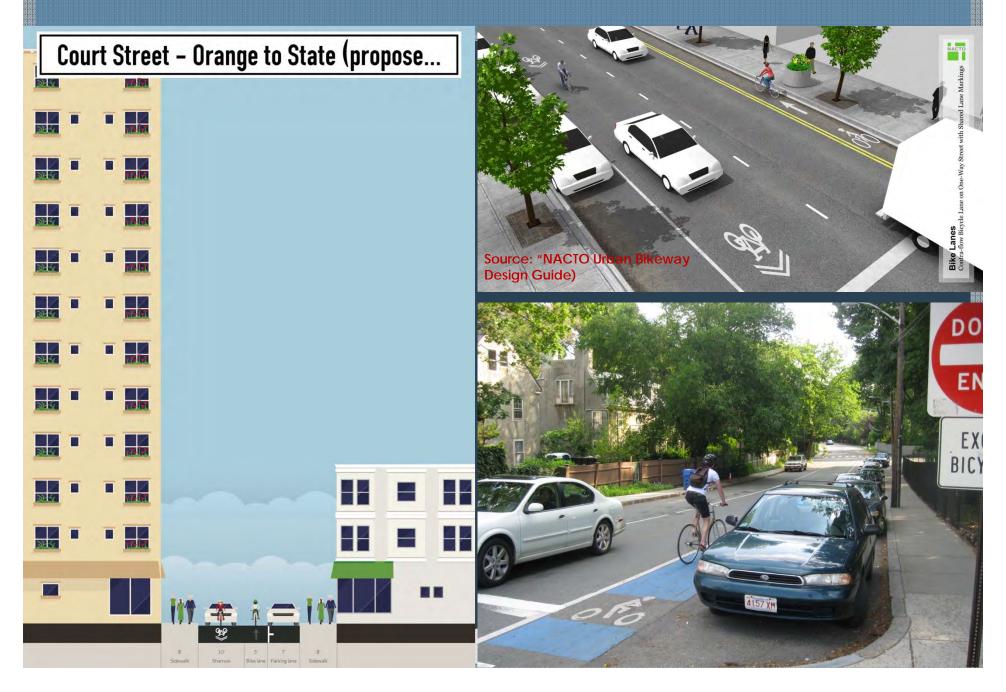
#### Court Street







#### Court Street - Contraflow Bike Lane



#### Court Street







#### Court Street







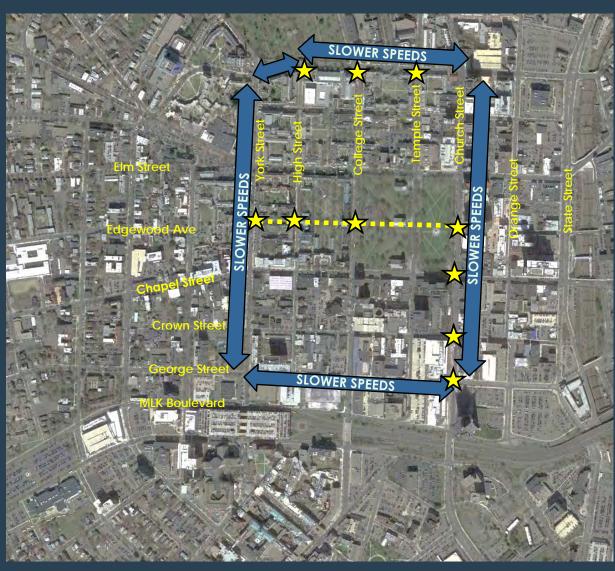
# Pedestrian Safety







#### Pedestrian Safety









#### Pedestrian Conflicts

#### The "Multiple Threat" Pedestrian Conflict

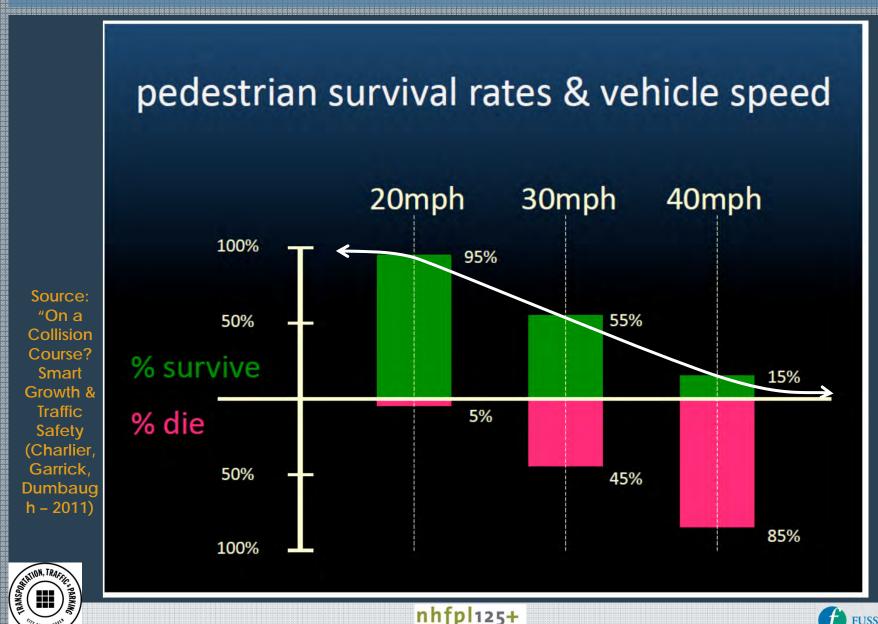




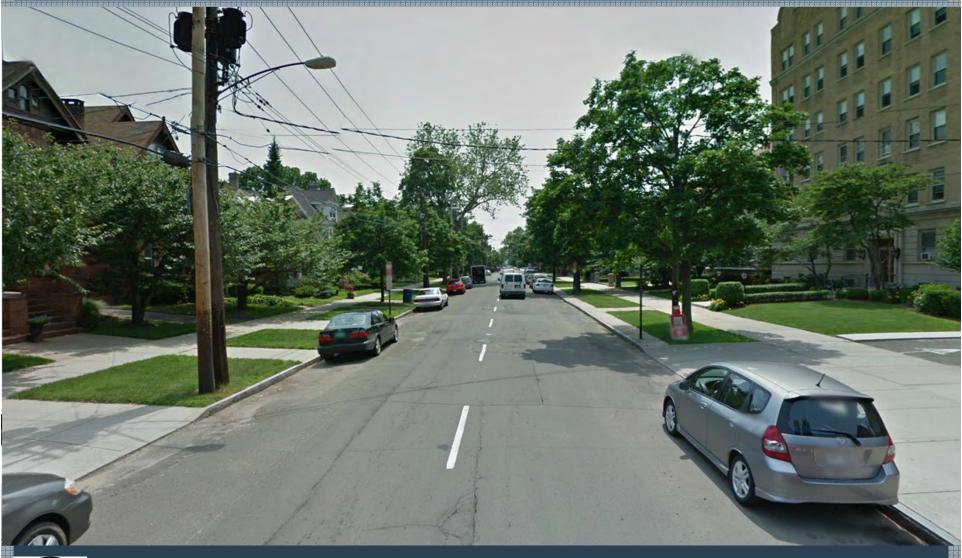




#### Speed Kills...Literally



FUSS&O'NEILL









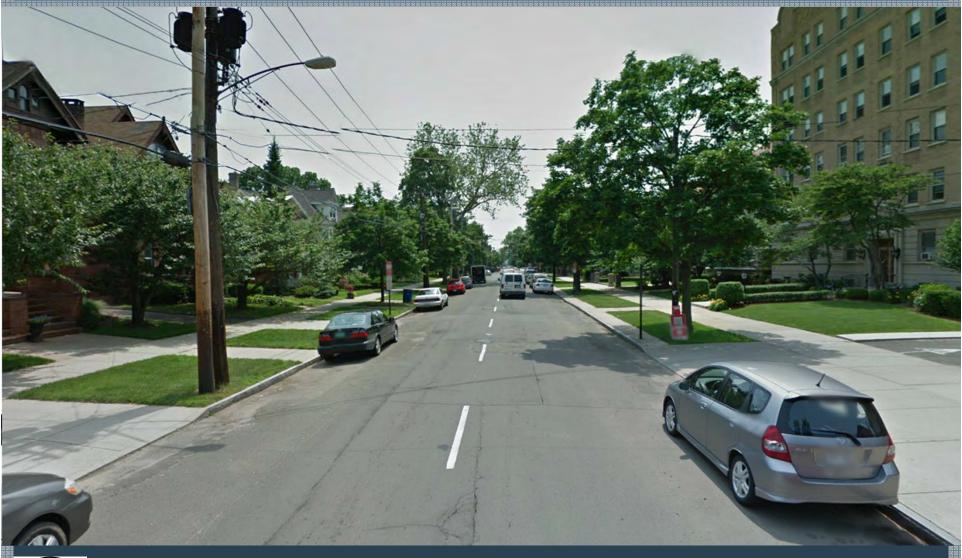




#### Dwight Street Proposed



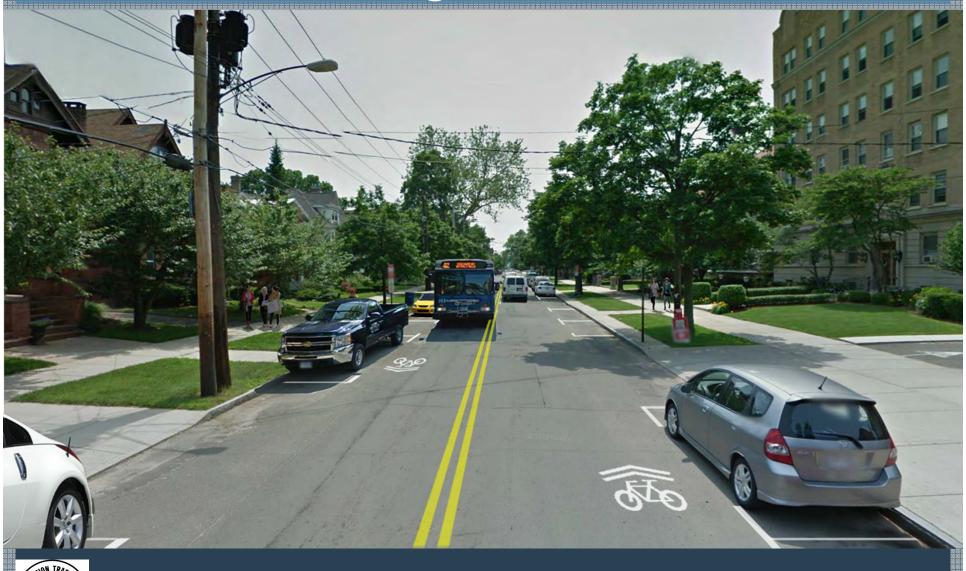
FUSS & O'NEILL















#### Howe Street





#### Howe Street Proposed





# Hillhouse Avenue - Two Way (cars and bikes) Hillhouse Avenue (proposed) Sidewalk Parking lane Planting strip





Street	Description of Alternative	int	grove: Verhouse	Modelley Ingli	Gred Transfer	Routing De Service Ser	elophent differ	state Subservi	sik impacts	ormental impact	55,555)	andre hosters	General Notes on Imp Design and Constructability Consider
Dwight Street	Proposed two-way street conversion entire length.		Sharrows		1	Limited		(2)	1	Sho			
Howe Street	Proposed two-way street conversion entire length.		Sharrows		1	Limited		8	sss	Sho	ort		
Park Street	Proposed two-way street conversion entire length.		Sharrows		1	Limited		@	sss	Sho	ort		
York Street	Proposed two-way street conversion entire length.	<b>A</b>	Sharrows		1	Limited		8	sss	Sho	ort		
High Street	Potential two-way street conversion between Crown and Grove Street		Sharrows	-	1	Significant	文	8	\$	Lor	eg .		
College Street	Proposed two-way street conversion from Chapel Street to South Frontage Road		Sharrows		1	Limited		@	sss	Sho	ort		
Hillhouse Avenue	Proposed two way street conversion from Grove Street to Trumbull Street		Sharrows		L.	Limited		@	s	Sho	ort		
Temple Street	Potential two-way street conversion entire length.		Sharrows		1	Limited		8	\$\$\$	Lor	ig.		
Church Street	Proposed two-way street conversion George Street to Grove Street		Designated Lanes		1	Limited		8	ss	Sho	ort		
Orange Street	Potential two-way street conversion between Elm Street and Crown Street		Sharrows		1	Significant	文	8	ss	Lor	og.		
George Street	Proposed two-way street conversion between Dwight Street and State Street, with exception of Temple to Church segment (longer term conversion due to Temple Garage access/egress locations)		Sharrows		16	Limited		(2)	\$\$\$*	Sho	ort		
Crown Street	Proposed two-way street conversion entire length between Church and Howe Streets; retain one-way WB between Church and State		Sharrows		1	Moderate		8	\$\$*	Sho	ort		
Chapel Street	Potential two-way street conversion between Dwight Street and College Street		Sharrows		1	Significant	次	8	55*	Lor	g		
Elm Street	Potential two-way street conversion from Park Street to State Street		Designated Lanes		1	Limited		8	\$\$*	Lor	18		
Wall Street	Reverse direction from EB to WB between Orange Street and College Street in short term; Potential two-way street conversion entire length in long term		Sharrows		1	Significant	次	@	s	Sho			
Grove Street	Proposed two-way street conversion between Orange Street and York Street		Sharrows		16	Limited		8	\$\$	Sho	ort		
Center Street	Reverse direction from one way westbound to one way eastbound to form one way couple with Crown Street.		Sharrows		1	None	11	8	\$	Sho	ort		
Court Street	Add WB contra flow bike lane entire length of road		Sharrows		1	None		8	s	Sho	ert		

#### Conclusions

- 2 Way Streets
  - Less frustration for drivers and bikers
  - Loop around the 9 squares
- Simplify bus routes
  - Reliability of schedule
- Expand bike network
  - √ Sharrows
  - ✓ Church Street bike spine
- Improve pedestrian safety
  - ✓ Slower speed makes safer crossing



