

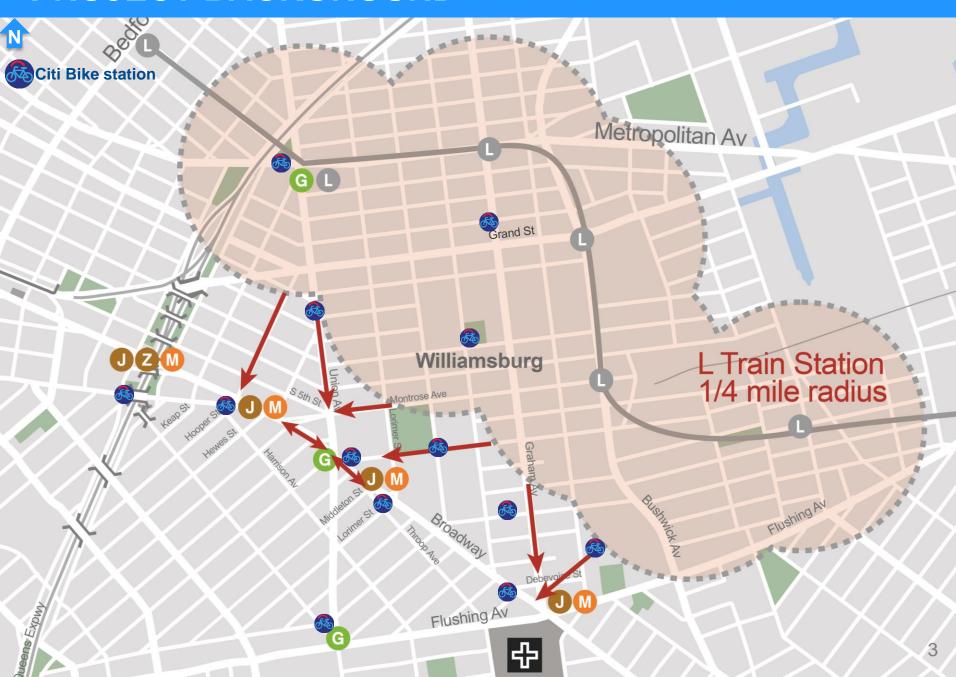
June 12, 2018





Project Background

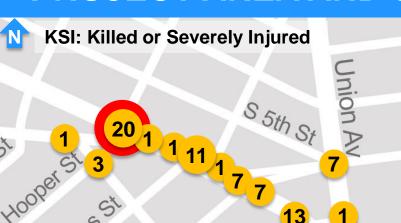
PROJECT BACKGROUND



PROJECT AREA AND SAFETY DATA

21

orimer St



- Broadway is a Vision Zero Corridor with 21 KSI/mile
- Both Broadway at Hooper St and Broadway at Flushing are Vision Zero Intersections
 - Project scope is within a Vision Zero Area

iraham Av

Broadway, Hooper St to Flushing Ave, Brimer St.

'njury Summary, 2012-2016 (5 years)

Total
Injury

	Total Injuries	Severe Injuries	Fatalities	KSI
Pedestrian	70	9	4	13
Bicyclists	59	11	0	11
Motor Vehicle Occupant	203	1	0	1
Total	332	21	4	25

3 ebevoise St 23 Flushing Av 84

Project Issues and Solutions

PROJECT LOCATIONS



HOOPER ST – EXISTING ISSUES



- Multiple missing crosswalks
- 2 Inconsistent street network on Hooper St





HOOPER ST – PROJECT PLAN



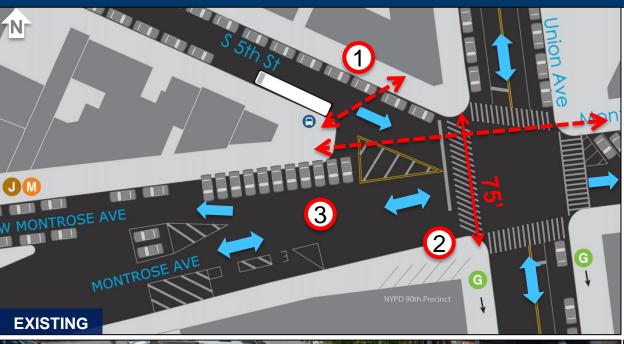




- Convert one block of Hooper St to one-way southbound
- Close slips on Division Ave and Broadway in paint
- Add a right turn lane on Hooper St at Harrison Ave
- Build out and extend concrete triangle and adjacent corners



MONTROSE AVE – EXISTING ISSUES

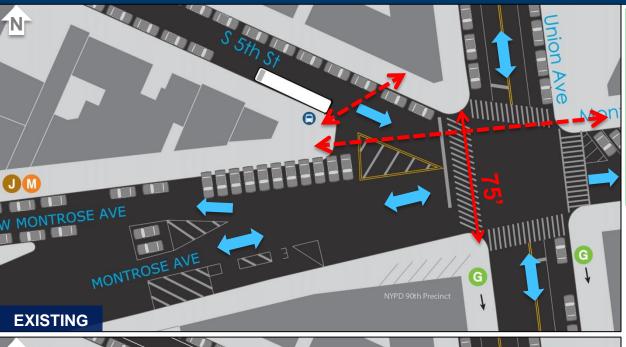


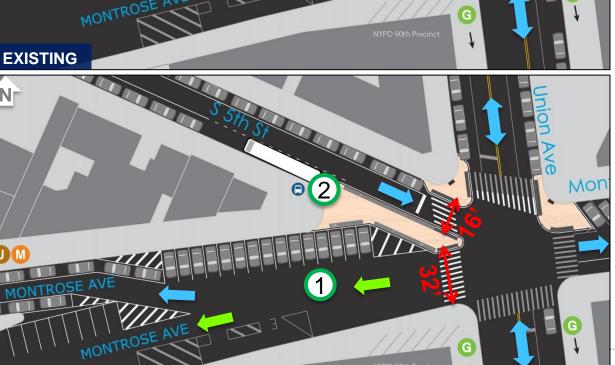
- Missing crossing on S 5th St
- 2 Long crossings along Union Ave
- Redundancies in vehicular network create conflict for all roadway users





MONTROSE AVE – PROJECT PLAN





PLANNED

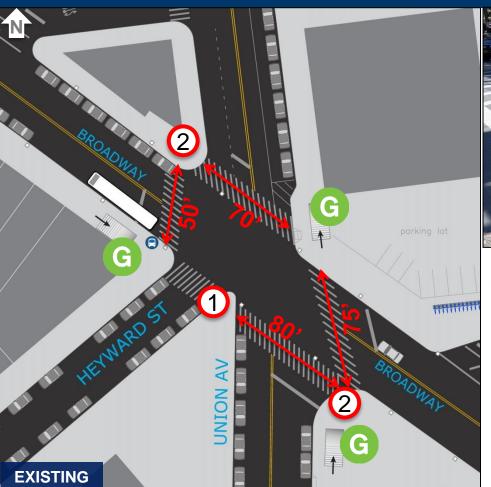


Convert one block of Montrose Ave to oneway westbound

Painted Sidewalk Extensions

Extend sidewalks in 2 paint along S 5th St

UNION AVE - EXISTING ISSUES

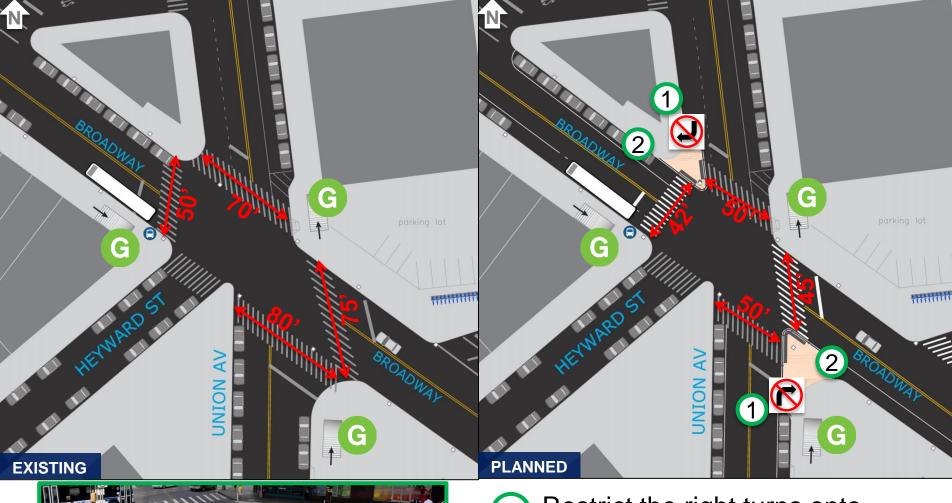




- 1 Long pedestrian crossing distances
- Acute right turns from Union onto Broadway are not geometrically possible for heavy vehicles

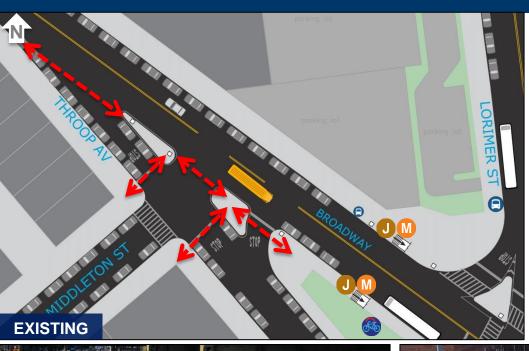
nyc.gov/dot 11

UNION AVE – PROJECT PLAN

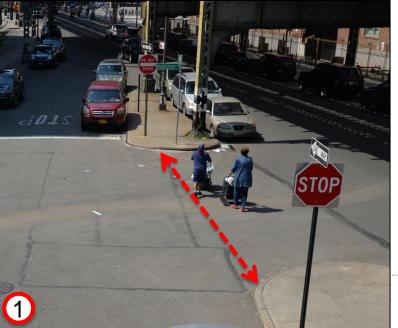


- EXAMPLE OF PAINTED CURB EXTENSIONS
- 1 Restrict the right turns onto Broadway from Union Ave
- 2 Extend sidewalks in paint

THROOP AVE - EXISTING ISSUES



- Missing crosswalks and ADA compliant access along Broadway and across Throop Ave
- 2 Unclear vehicular and pedestrian movements





THROOP AVE - PROJECT PLAN



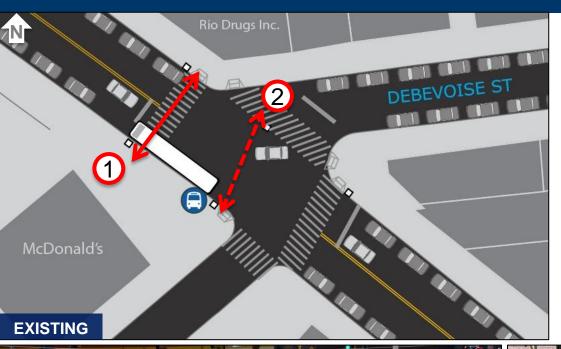






- 1 Close the slip from Middleton St to Broadway in paint
- 2 Install a painted sidewalk extension on Throop Ave at Broadway
- Add crosswalks along the southern side of Broadway

DEBEVOISE ST – EXISTING ISSUES

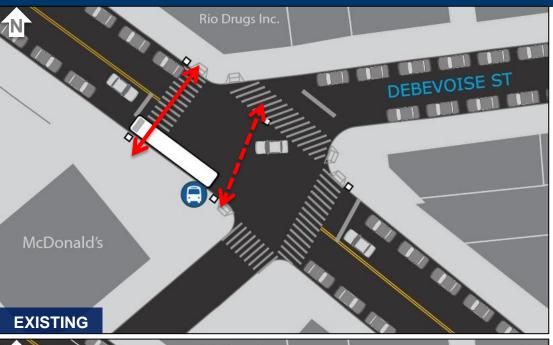


- Crosswalk behind the bus stop making pedestrians less visible to vehicles
- 2 Crosswalk does not match pedestrian desire line or the existing ramp



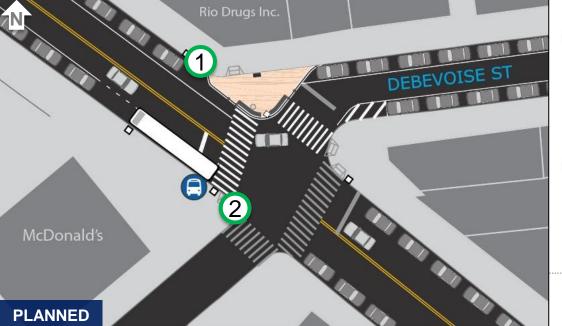


DEBEVOISE ST – PROJECT PLAN

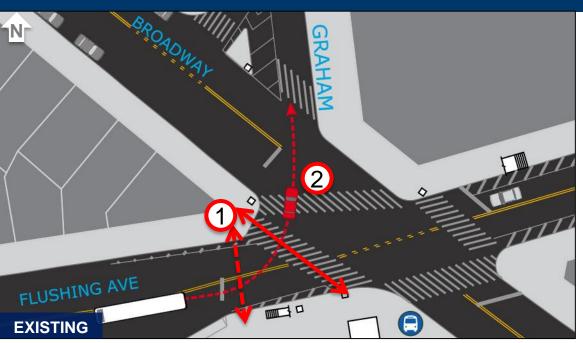




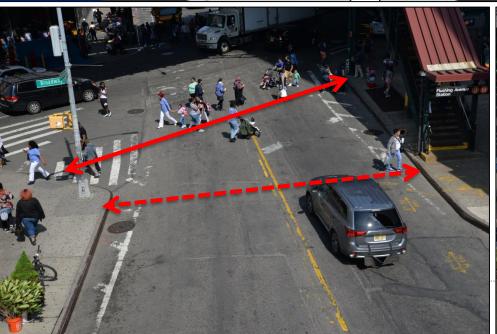
- 1 Add painted curb extension on the northern side of Debevoise St
- Realign crosswalk to be in front of the bus stop

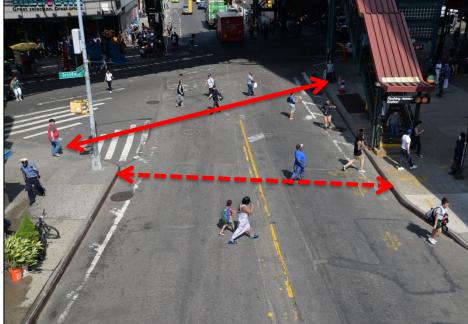


FLUSHING AVE – EXISTING ISSUES

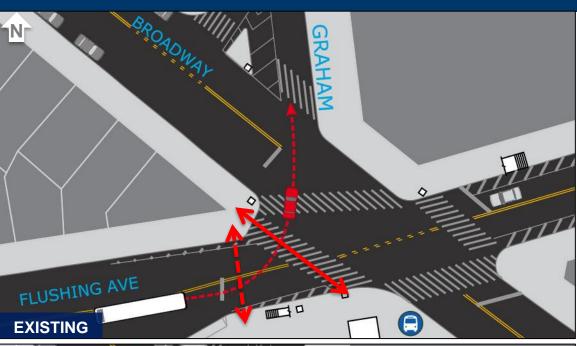


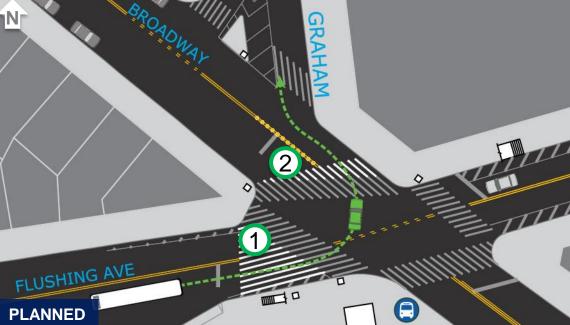
- 1 Crosswalk does not lead to the station stairs
- 2 Left turns from Flushing Ave westbound onto Broadway and Graham Ave northbound create an unsafe condition





FLUSHING AVE – PROJECT PLAN







- Flare the crosswalk on Flushing Ave and Broadway
- Install hardened centerline to calm turns from Flushing onto Broadway

THANK YOU!

Questions?













NYC DOT nyc_dot

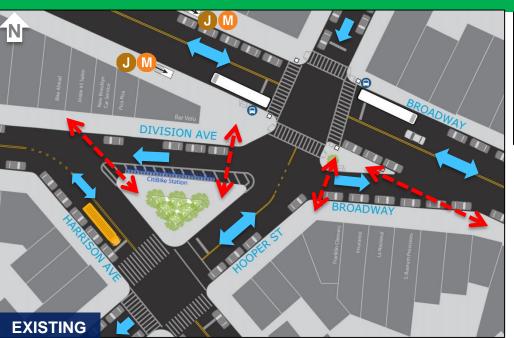
NYC DOT

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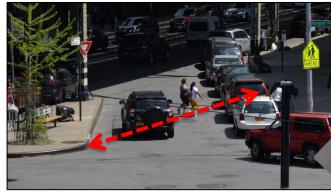
Appendix

nyc.gov/dot 20

HOOPER ST - EXISTING



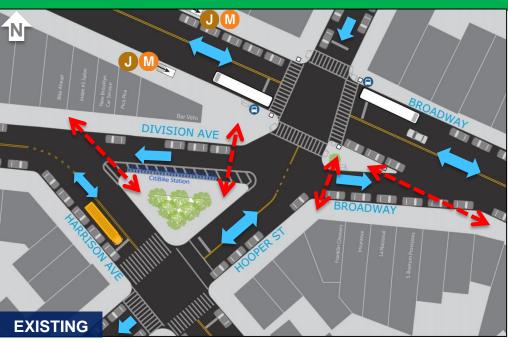








HOOPER ST – PROJECT PLAN



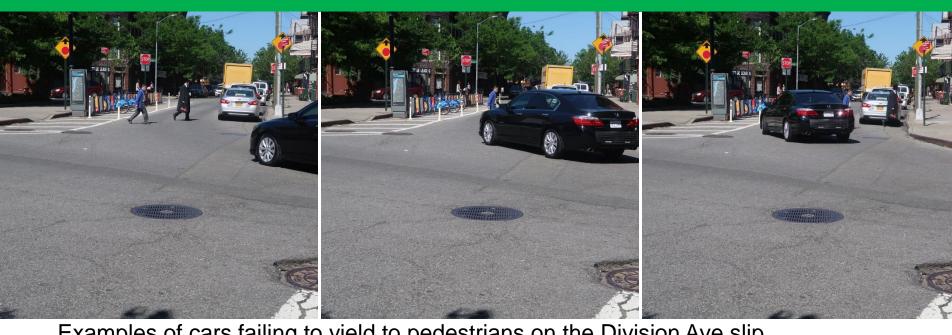




- Convert one block of Hooper St to one-way southbound
- Close slips on Division Ave and Broadway in paint
- Add a right turn lane on Hooper St at Harrison Ave
- Build out and extend concrete triangle and adjacent corners



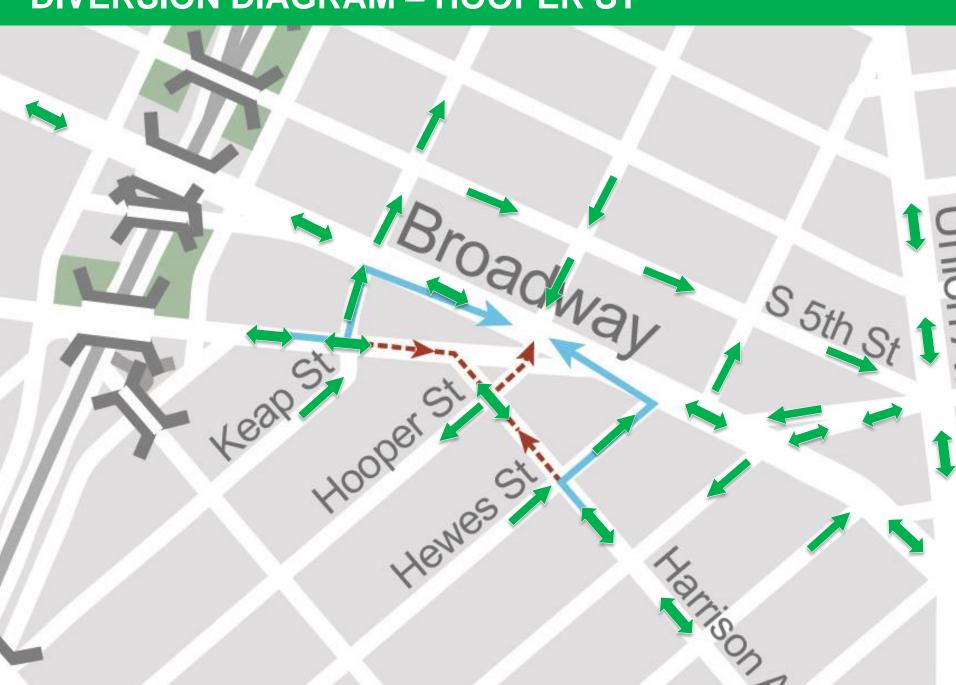
EXAMPLES OF CARS FAILING TO YIELD



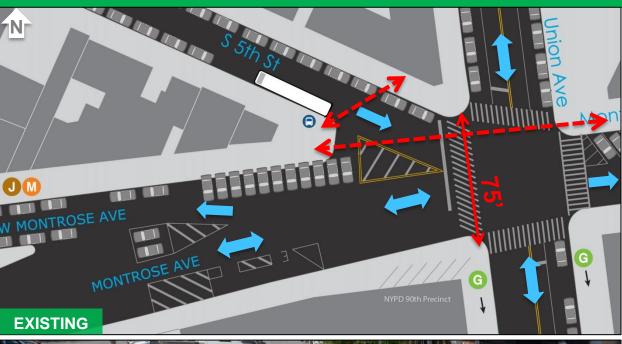
Examples of cars failing to yield to pedestrians on the Division Ave slip



DIVERSION DIAGRAM – HOOPER ST



MONTROSE AVE - EXISTING



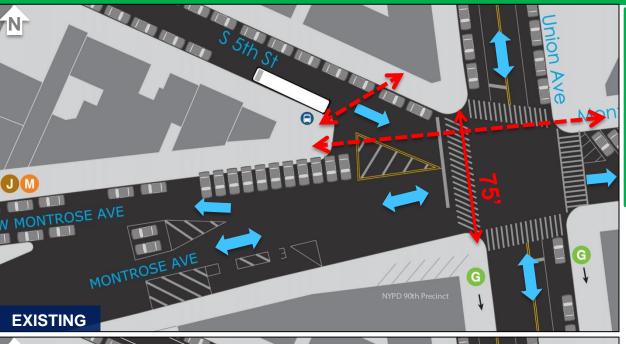




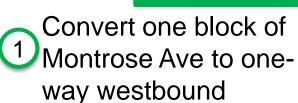




MONTROSE AVE – PROJECT PLAN

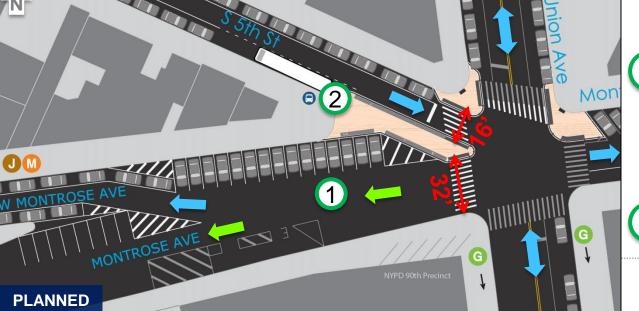




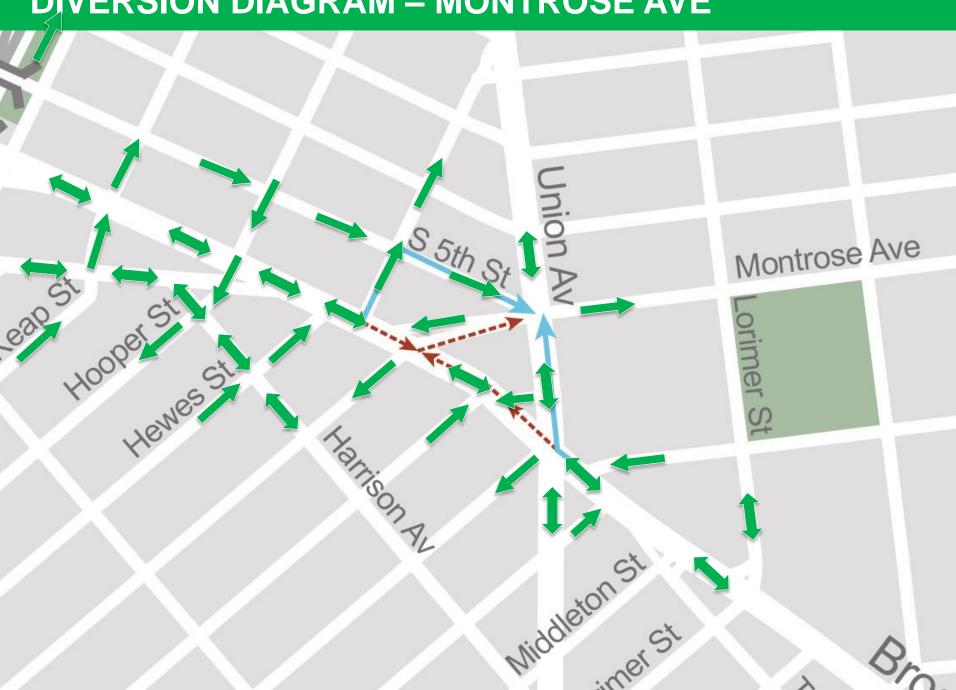


Painted Sidewalk Extensions

Extend sidewalks in 2 paint along S 5th St



DIVERSION DIAGRAM – MONTROSE AVE

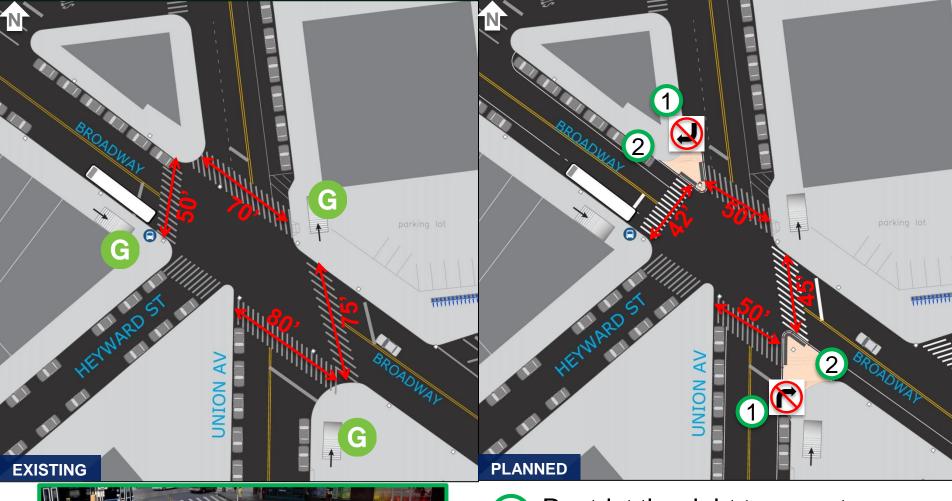


UNION AVE - EXISTING



nyc.gov/dot 28

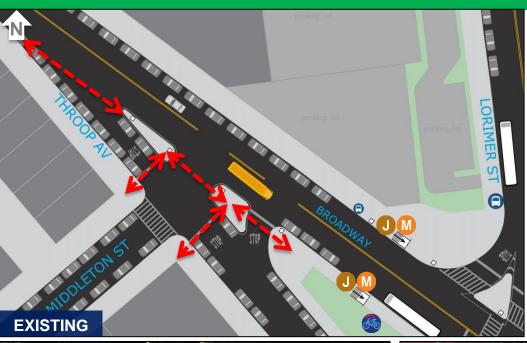
UNION AVE – PROJECT PLAN



- EXAMPLE OF PAINTED CURB EXTENSIONS
- 1 Restrict the right turns onto Broadway from Union Ave
- 2 Extend sidewalks in paint

DIVERSION DIAGRAM – UNION AVE S 5th St Montrose Ave

THROOP AVE - EXISTING

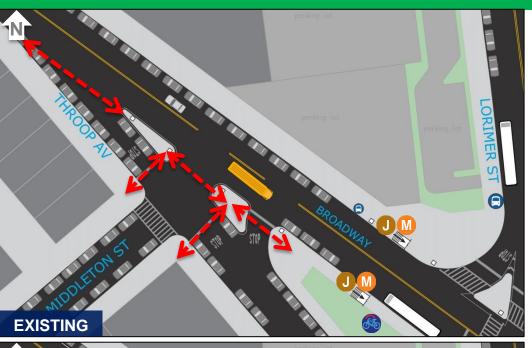








THROOP AVE - PROJECT PLAN



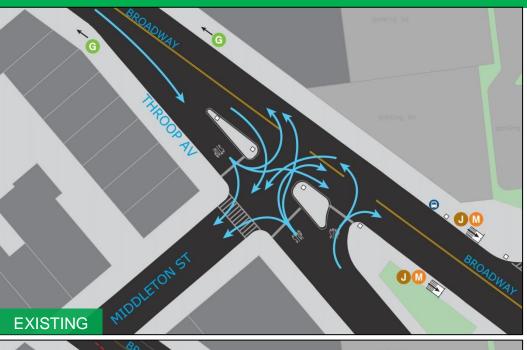






- 1 Close the slip from Middleton to Broadway in paint
- Install a painted sidewalk extension on Throop Ave at Broadway
- Add crosswalks along the southern side of Broadway

THROOP AVE – VEHICULAR MOVEMENTS





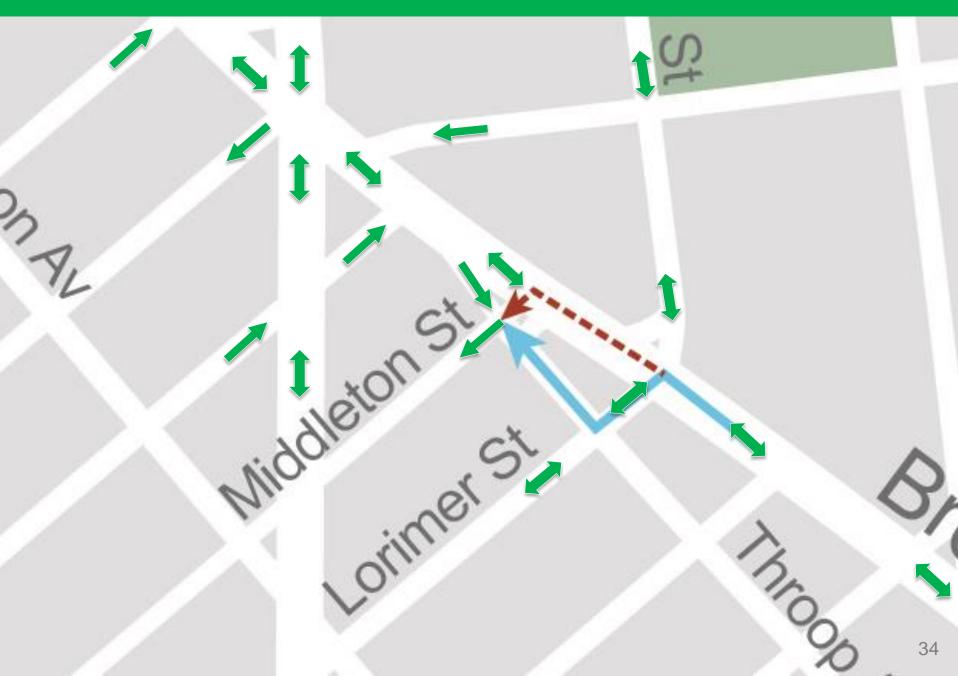
EXISTING CAR TURNING OUT OF SLIP



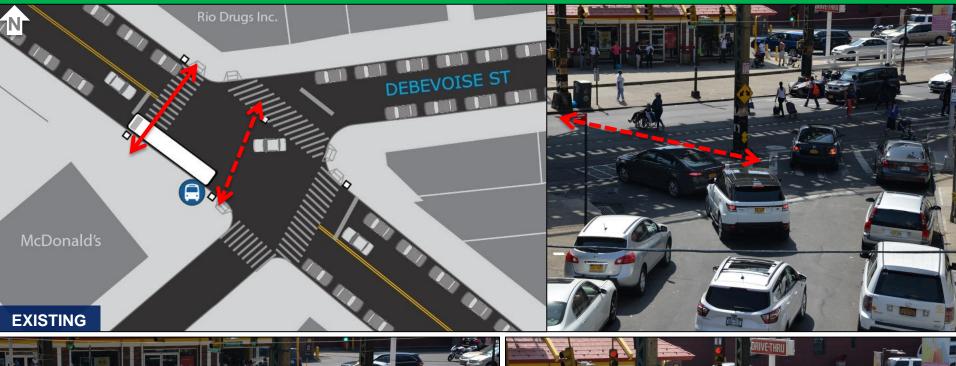


EXISTING CAR TURNING INTO SLIP

DIVERSION DIAGRAM – THROOP AVE



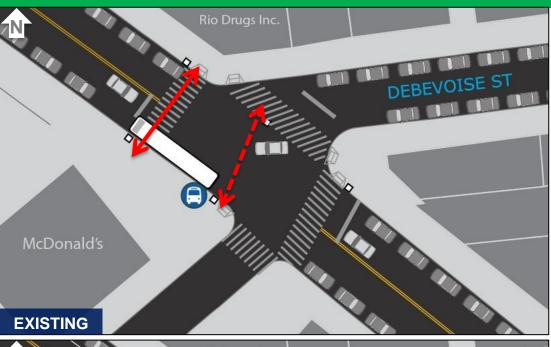
DEBEVOISE ST - EXISTING





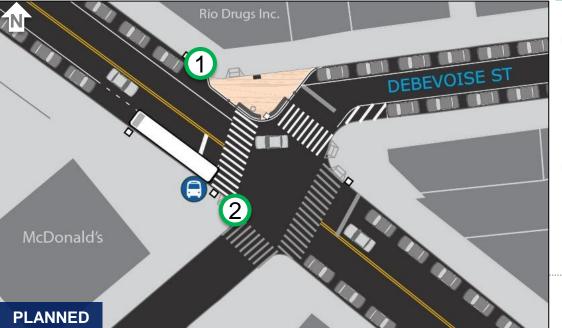


DEBEVOISE ST – PROJECT PLAN

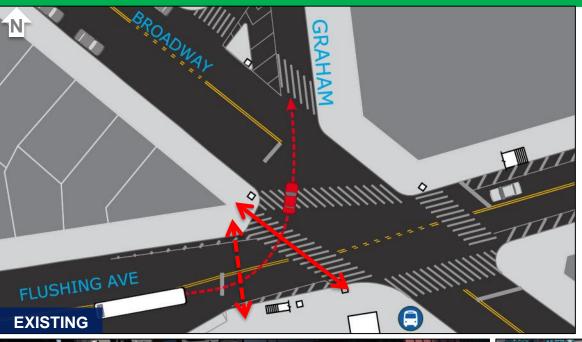




- 1 Add painted curb extension on the northern side of Debevoise St
- 2 Realign crosswalk to be in front of the bus stop



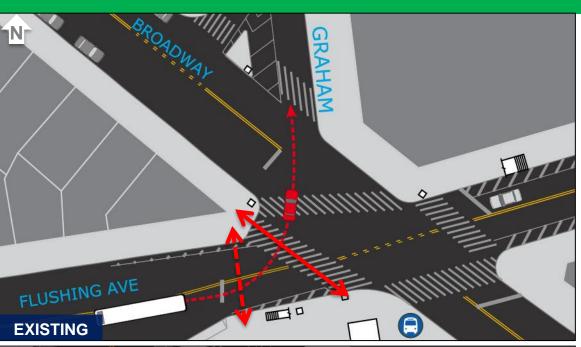
FLUSHING AVE – EXISTING

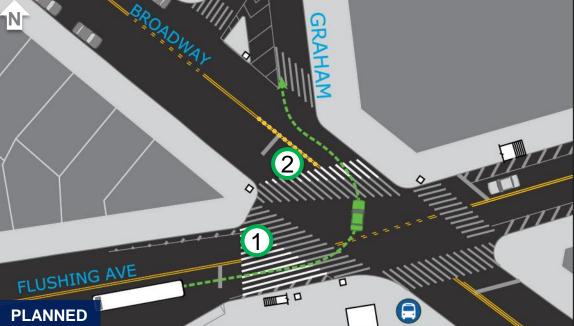






FLUSHING AVE – PROJECT PLAN







- 1 Flare the crosswalk on Flushing Ave and Broadway
 - Install hardened centerline to calm turns from Flushing onto Broadway