

Greenpoint Ave at 48th Ave

Intersection Improvements

2014

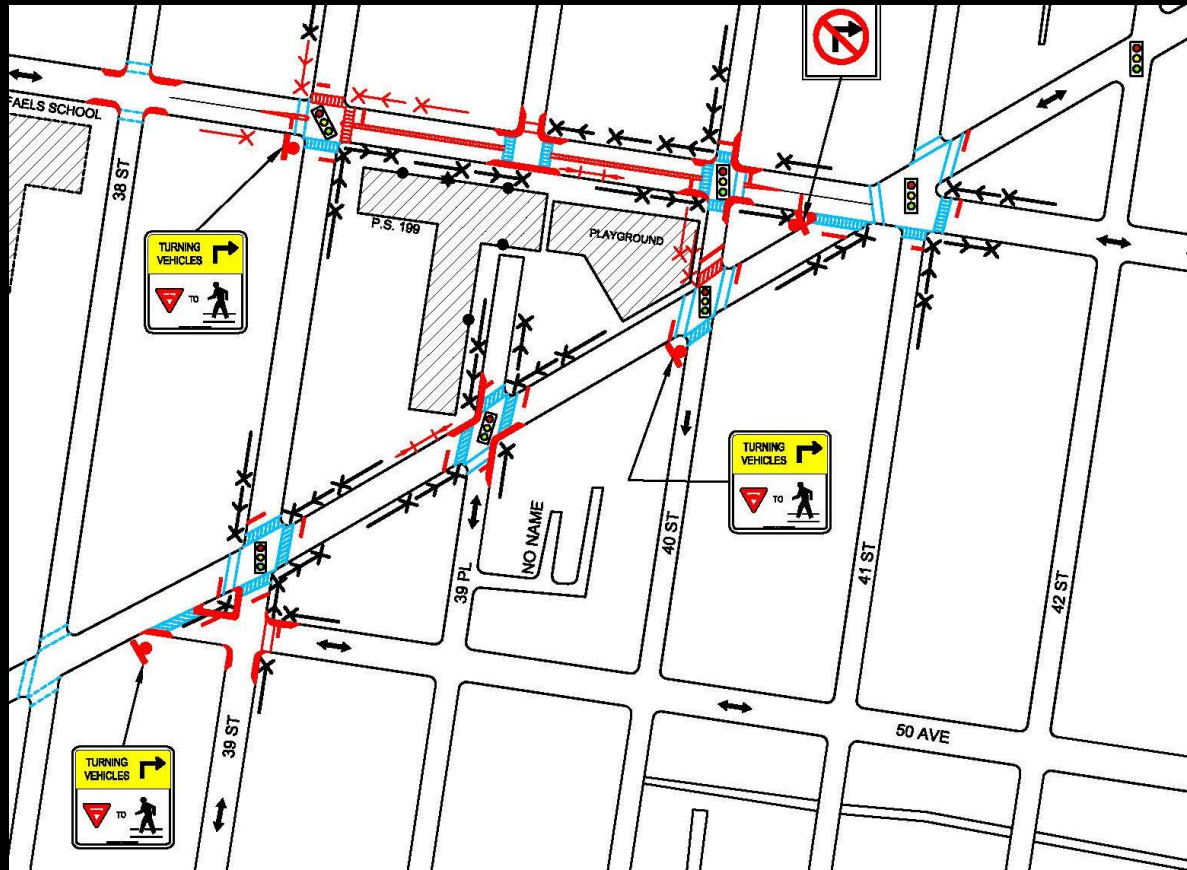


Project Background

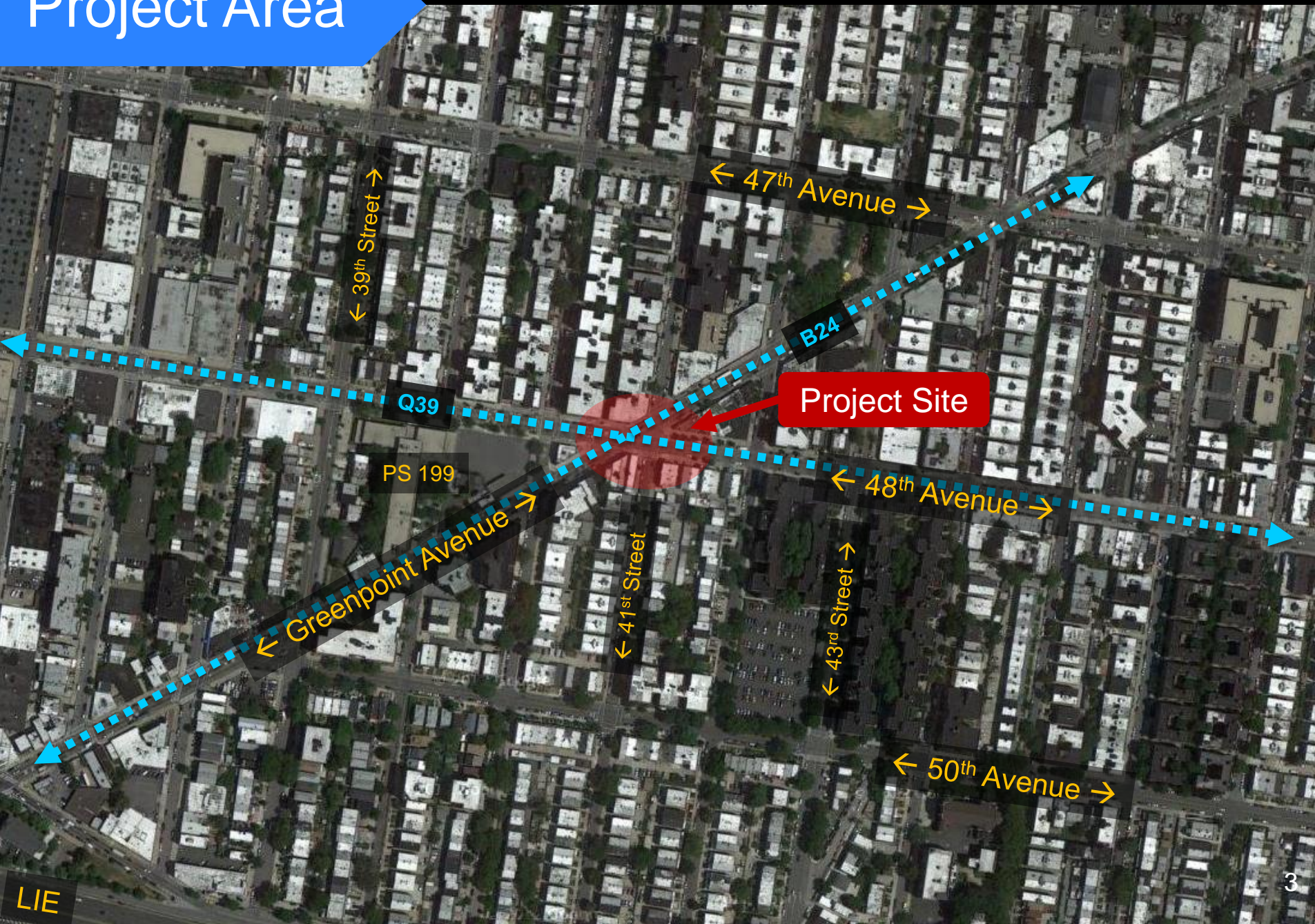
CM Van Bramer request for traffic calming measures and pedestrian safety improvements

DOT School Safety Project

- Expected to break ground Spring 2014
- Does not fully address Greenpoint Ave/48th Ave/41st St



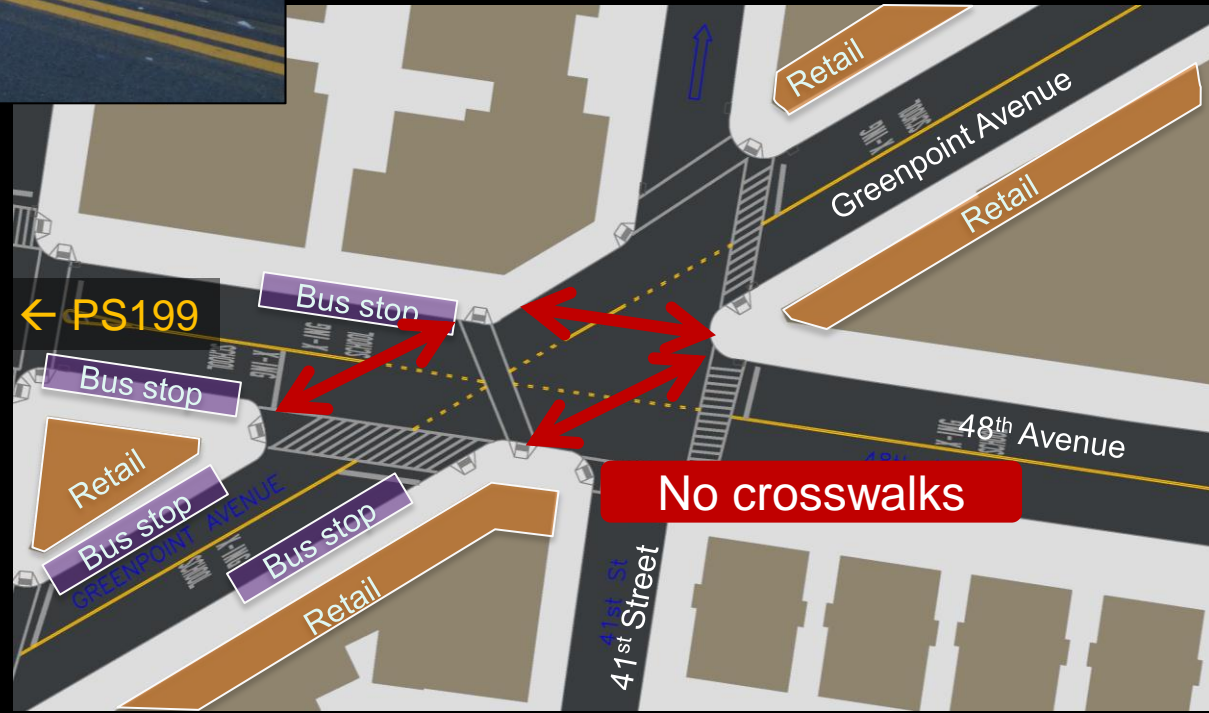
Project Area



Existing Conditions

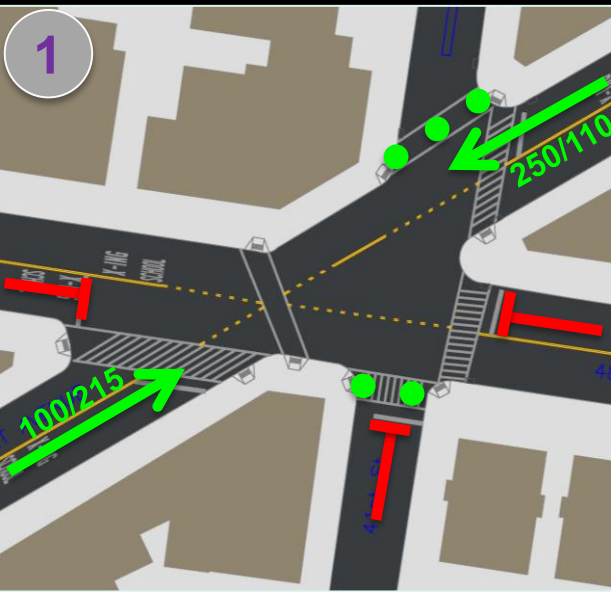


Intersection design fails to connect major pedestrian activity along retail corridor, bus stops, and school

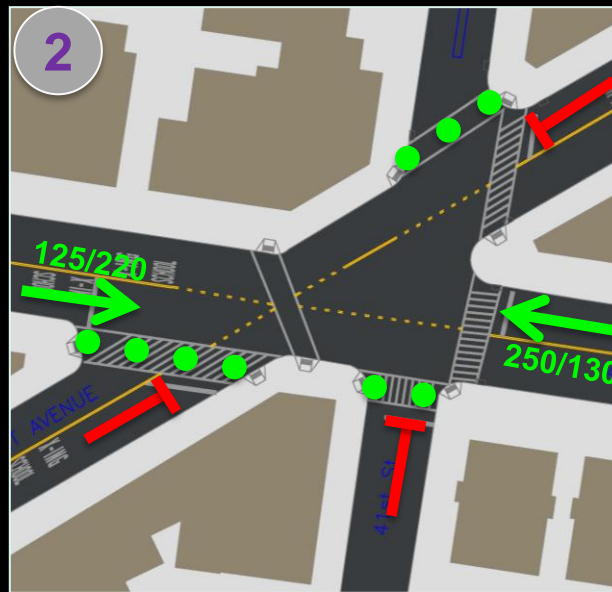


Existing Conditions

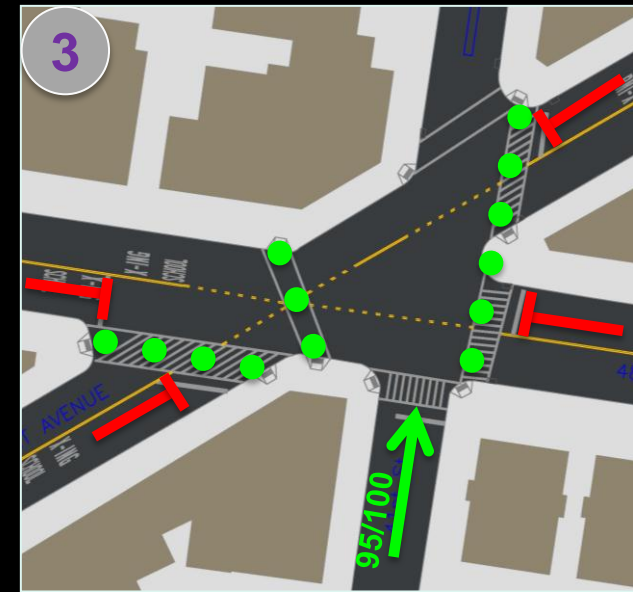
Three phase signal creates user confusion



Greenpoint Ave Phase
32 secs



48th Ave Phase
24 secs



41st St Phase
34 secs

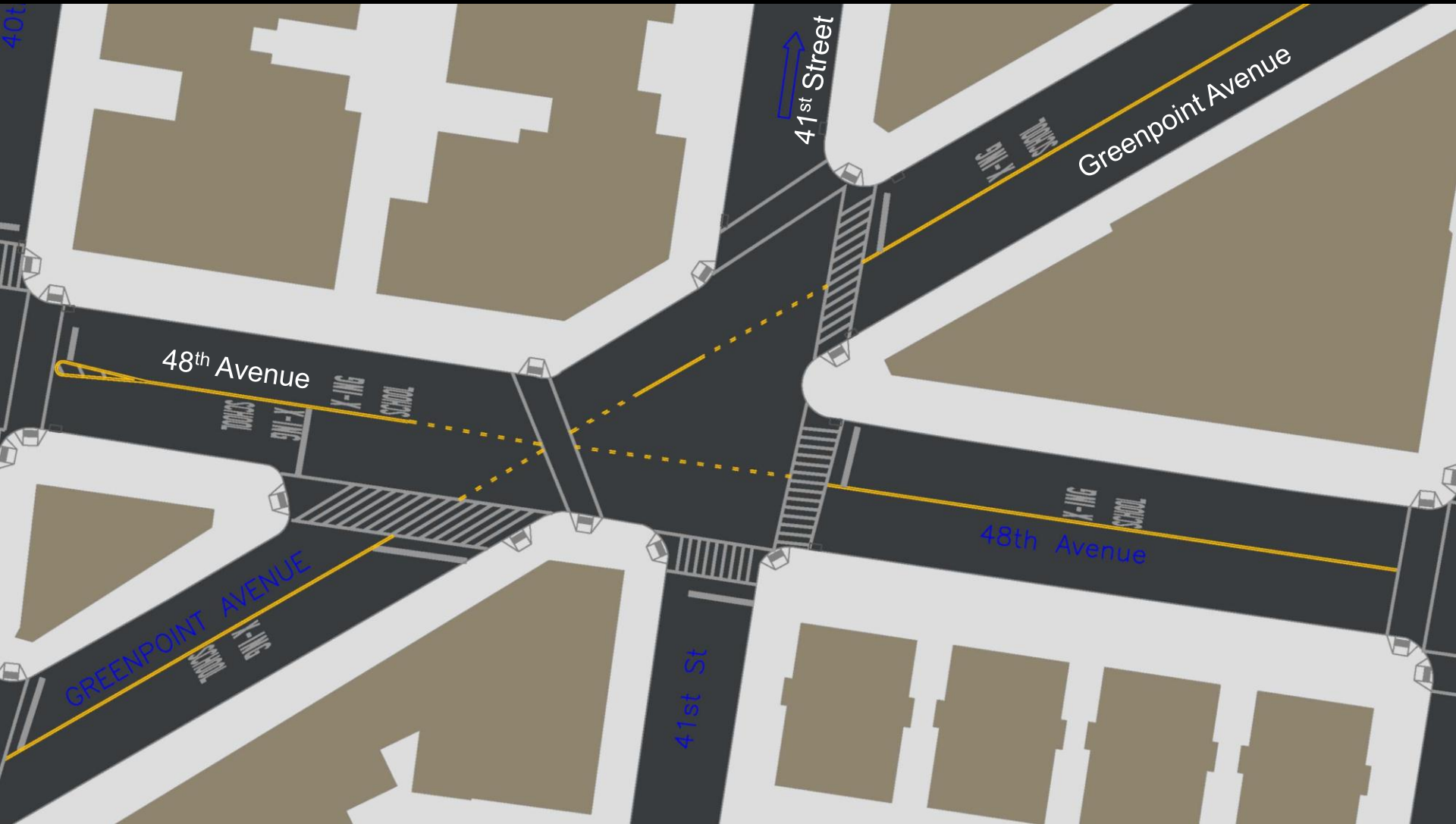
Two primary movements are held for 2/3 of each cycle

Rapid Response Toolkit

- Pavement markings
- Signal timing changes
- Signage
- Painted and/or textured surfaces
- Flexible delineators



Existing Conditions



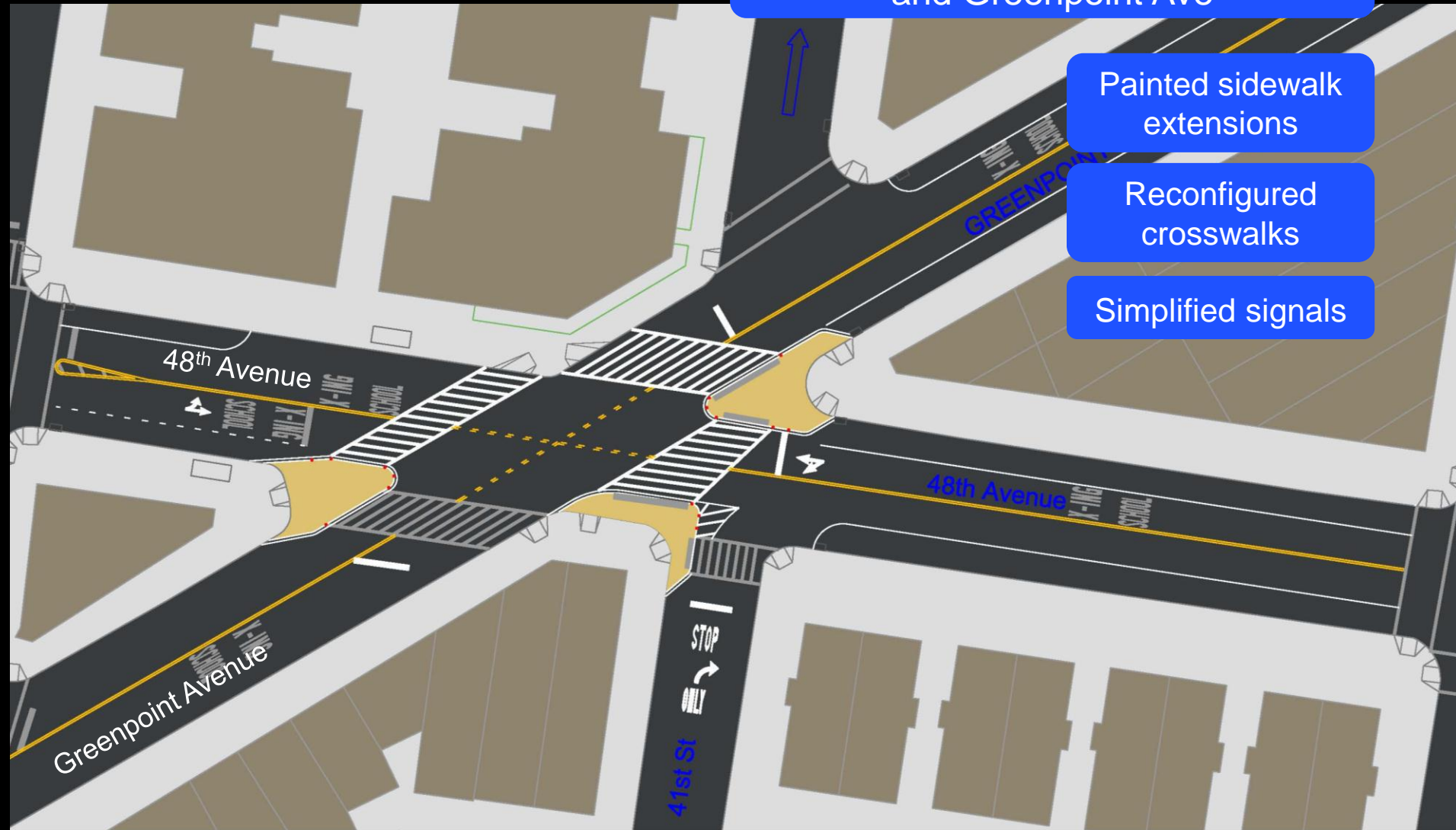
Proposed Plan

Refocus intersection around 48th Ave and Greenpoint Ave

Painted sidewalk extensions

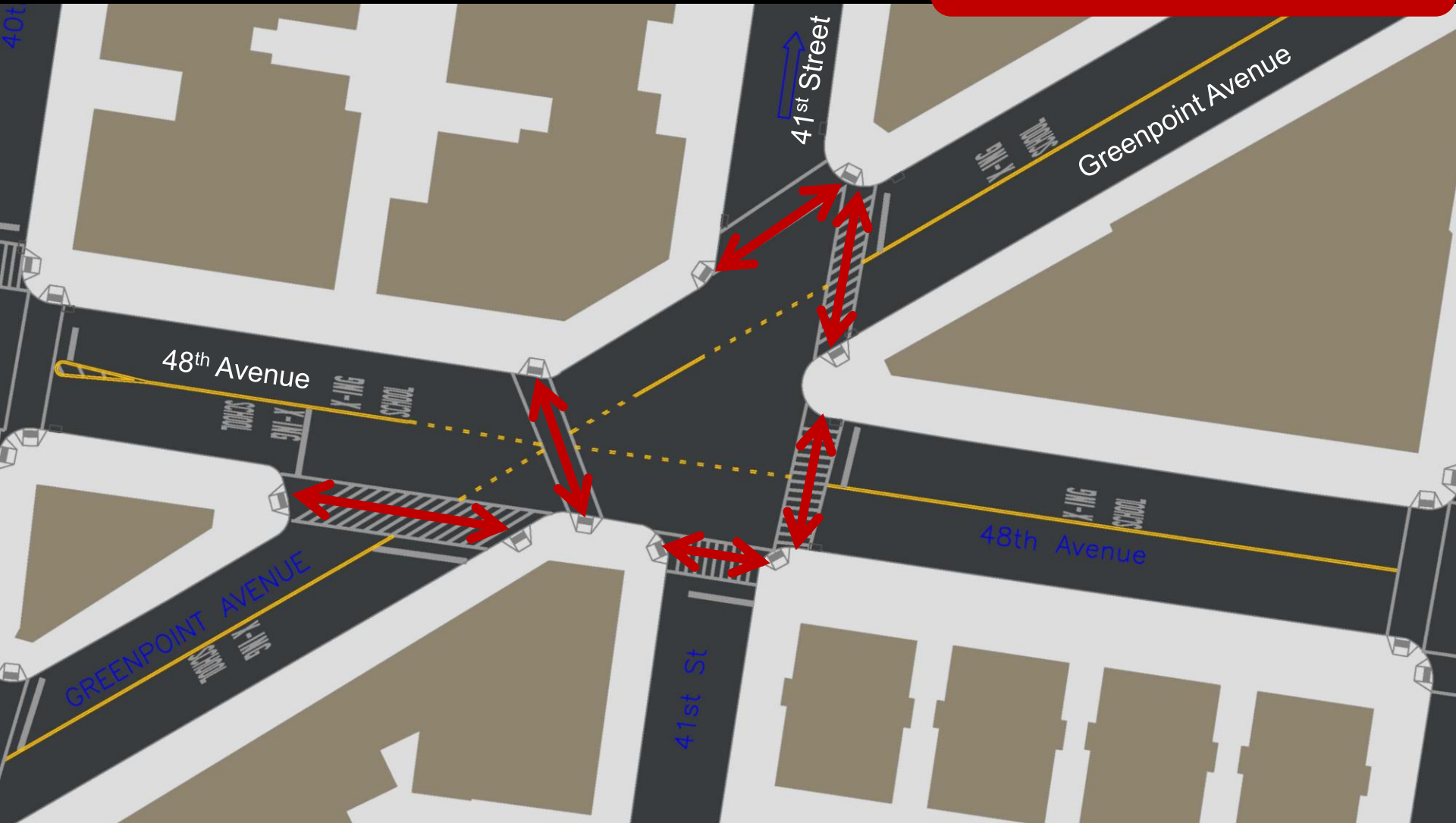
Reconfigured crosswalks

Simplified signals



Existing Conditions

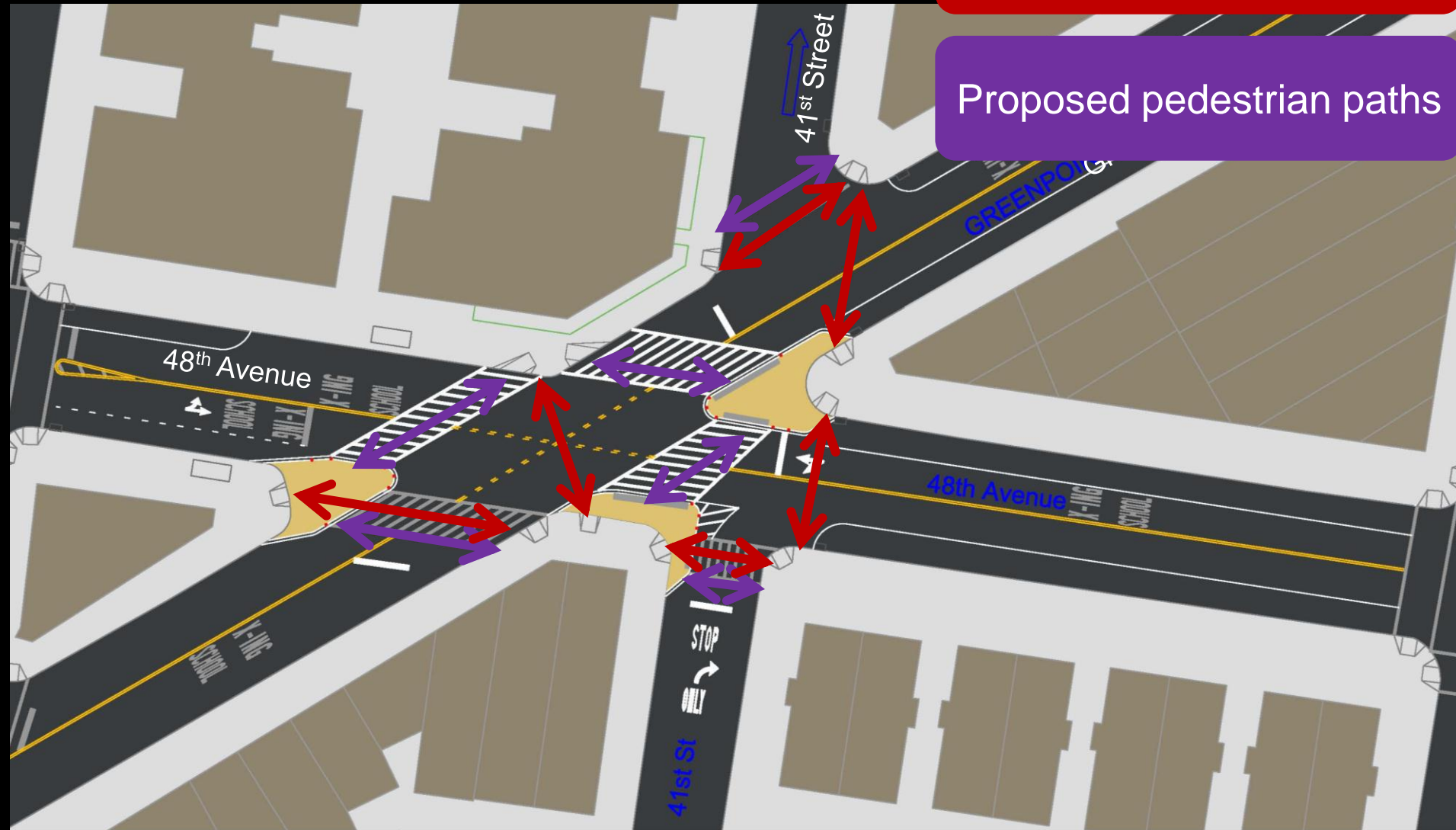
Existing pedestrian paths



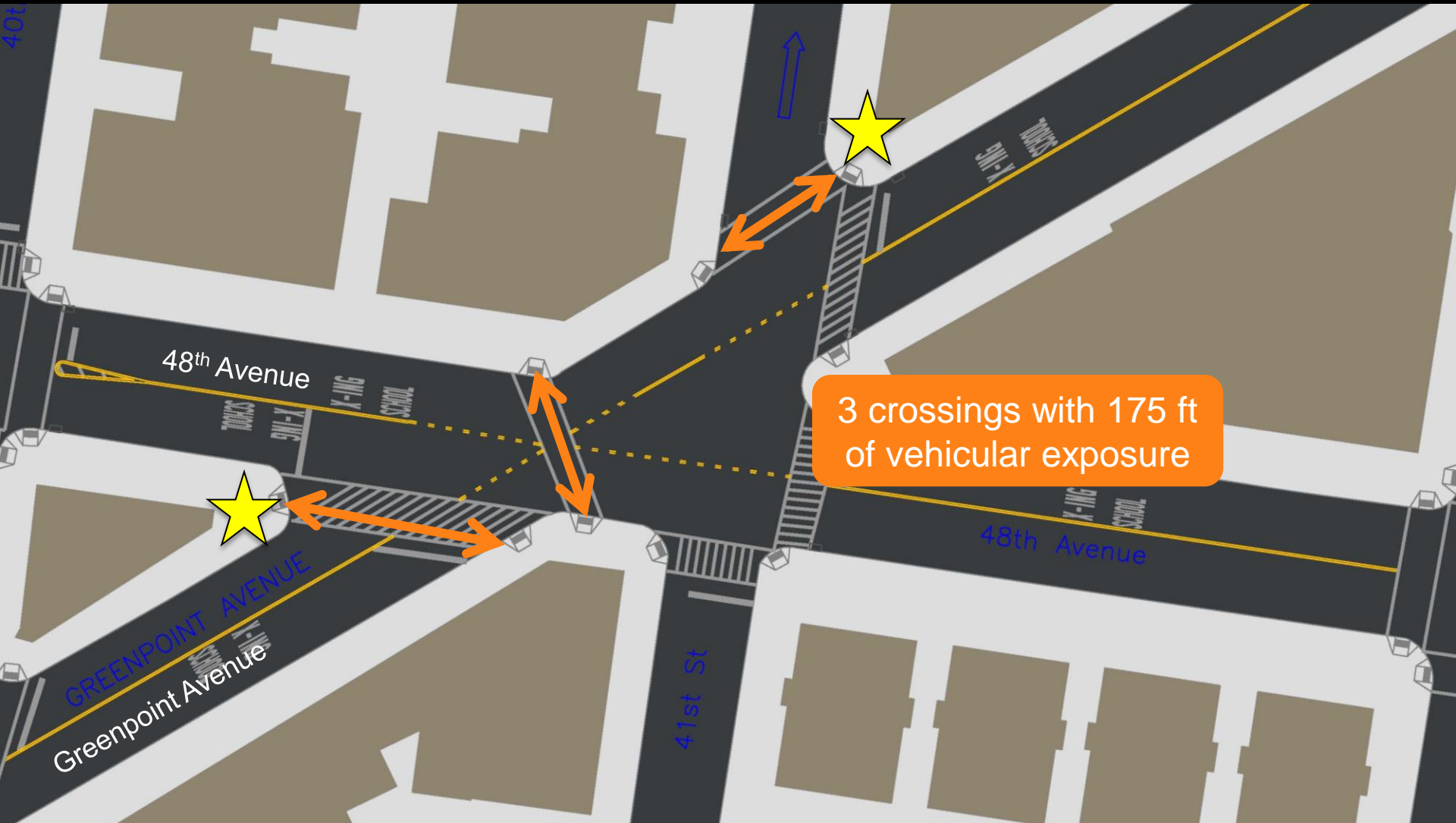
Proposed Plan

Existing pedestrian paths

Proposed pedestrian paths



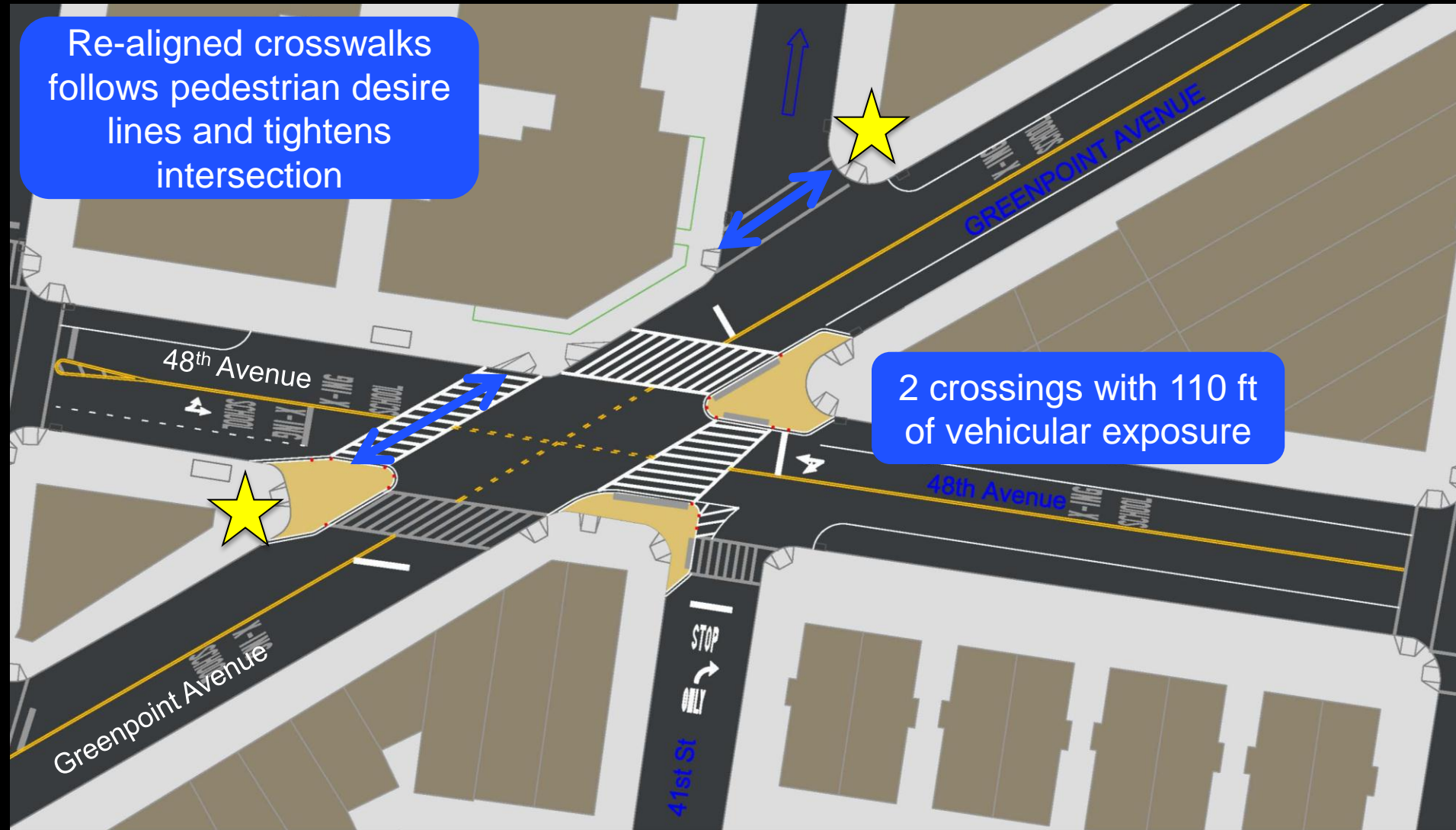
Existing Plan



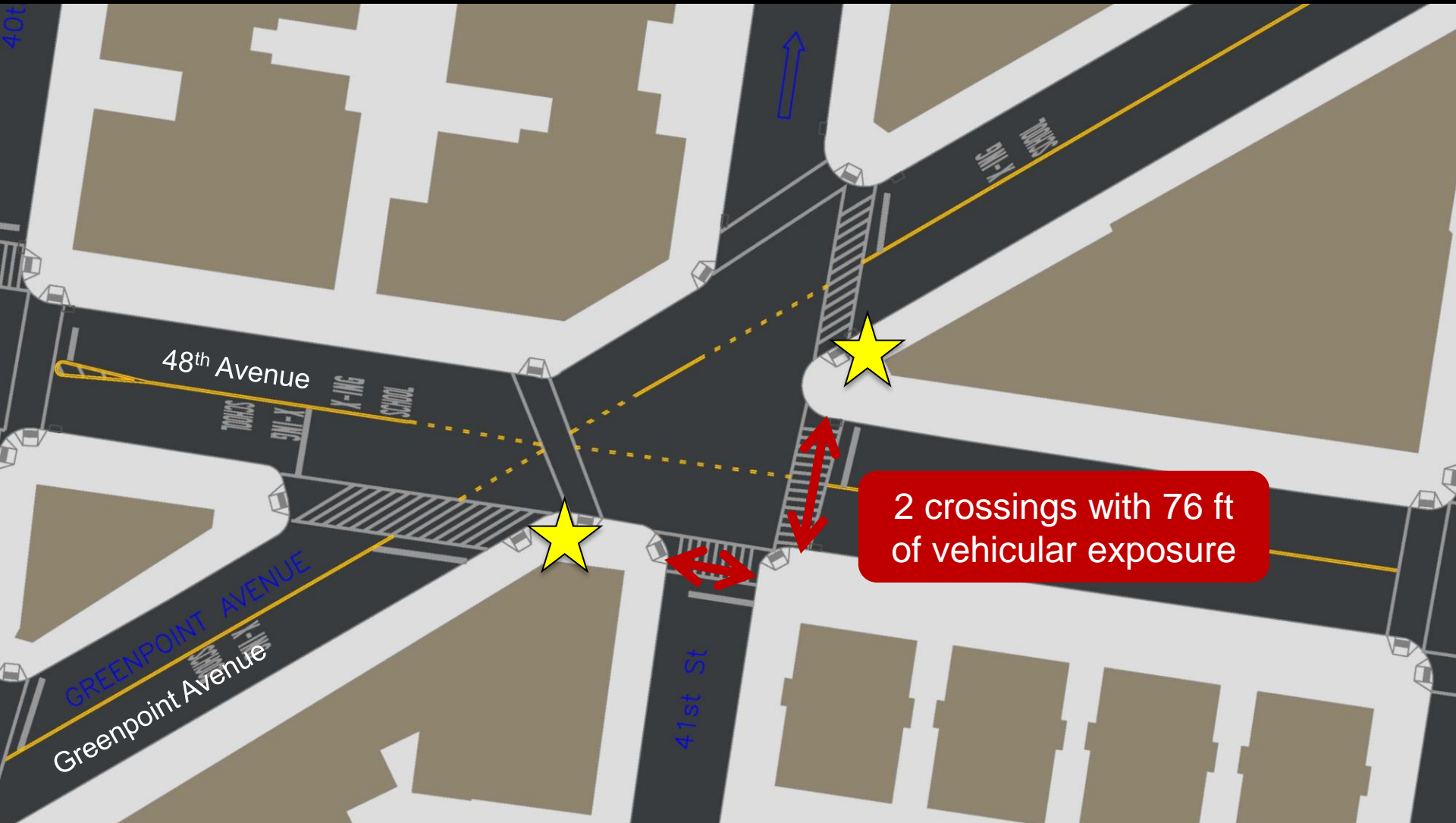
Proposed Plan

Re-aligned crosswalks follows pedestrian desire lines and tightens intersection

2 crossings with 110 ft of vehicular exposure



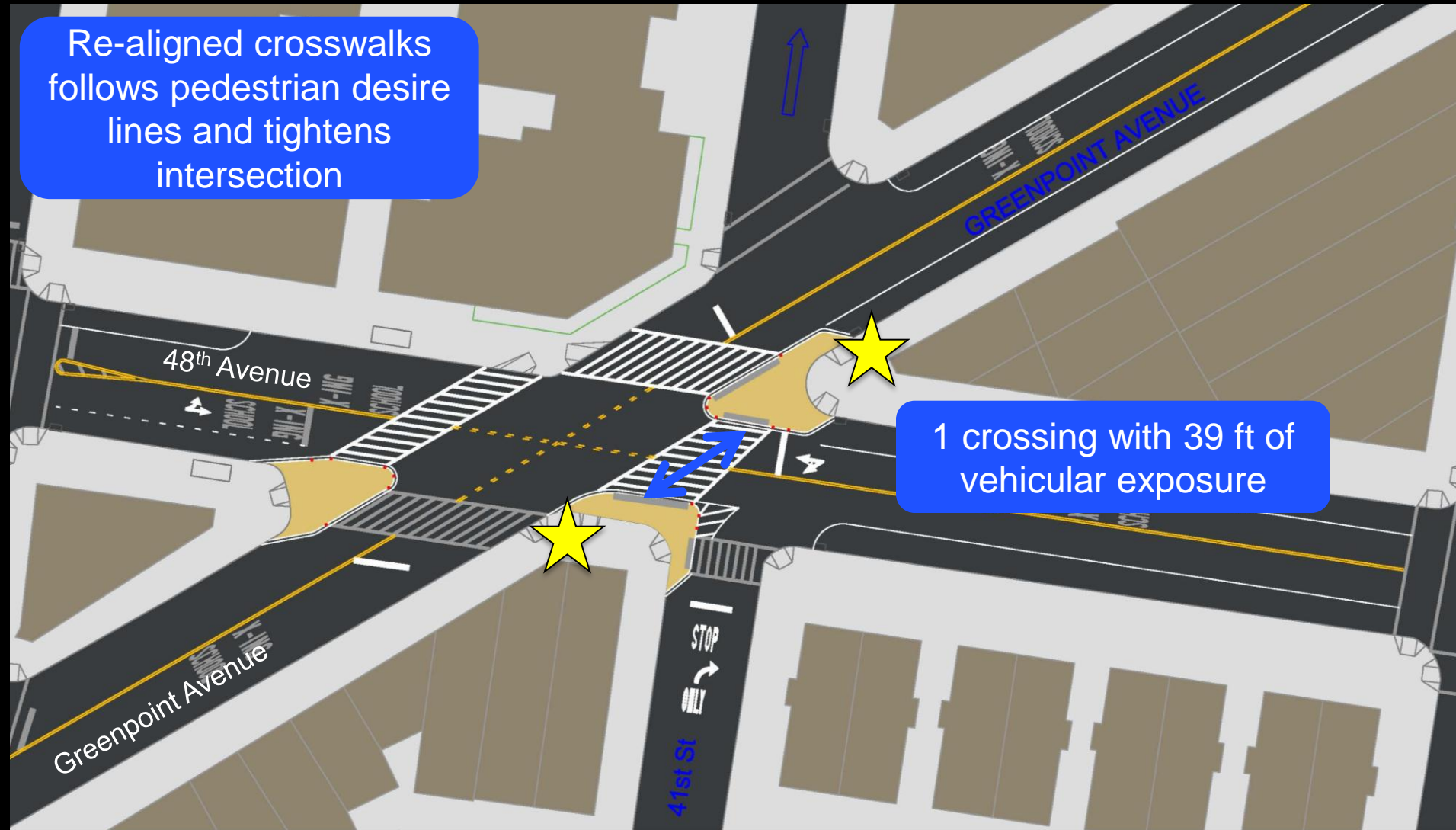
Existing Plan



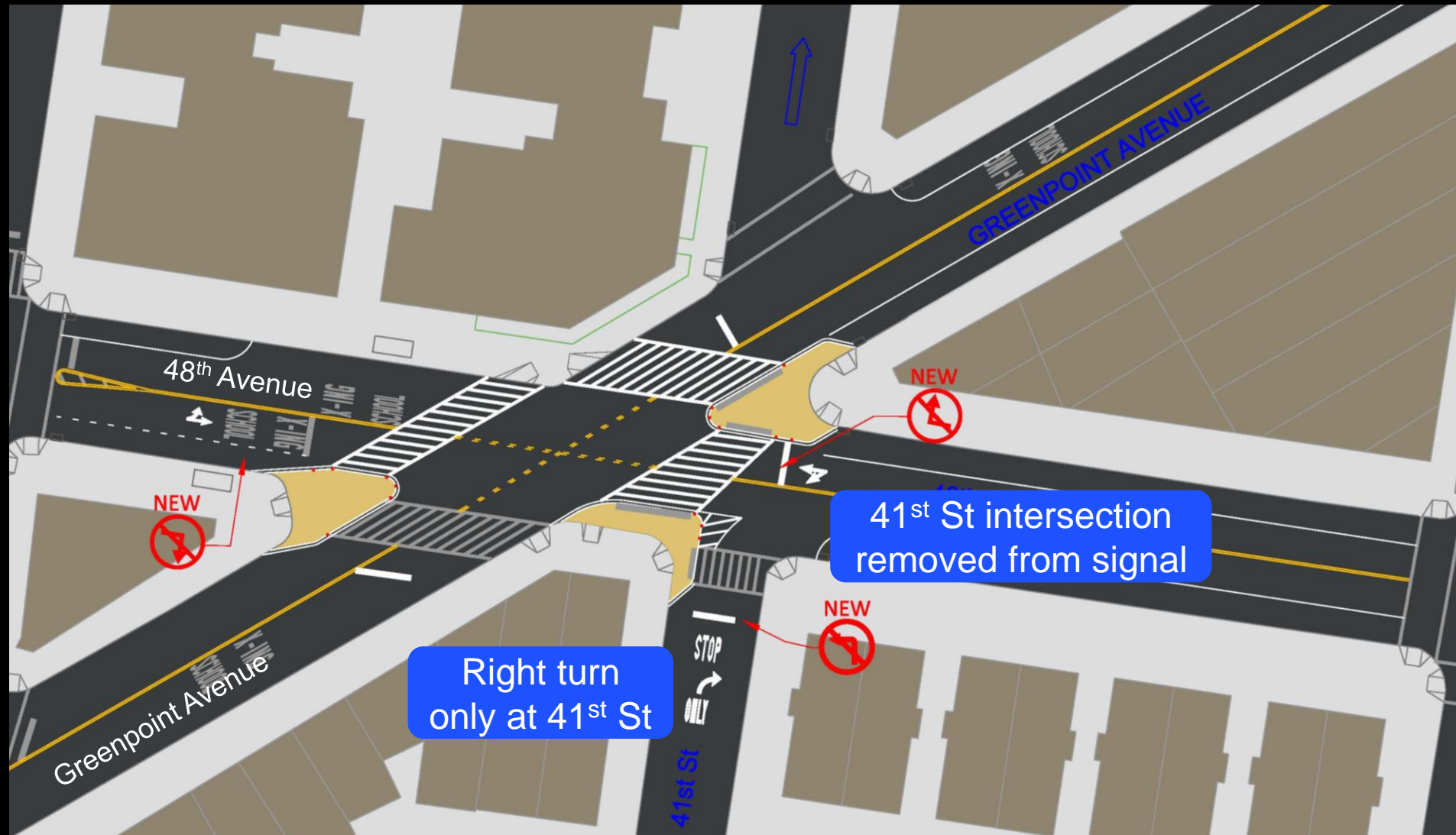
Proposed Plan

Re-aligned crosswalks follows pedestrian desire lines and tightens intersection

1 crossing with 39 ft of vehicular exposure

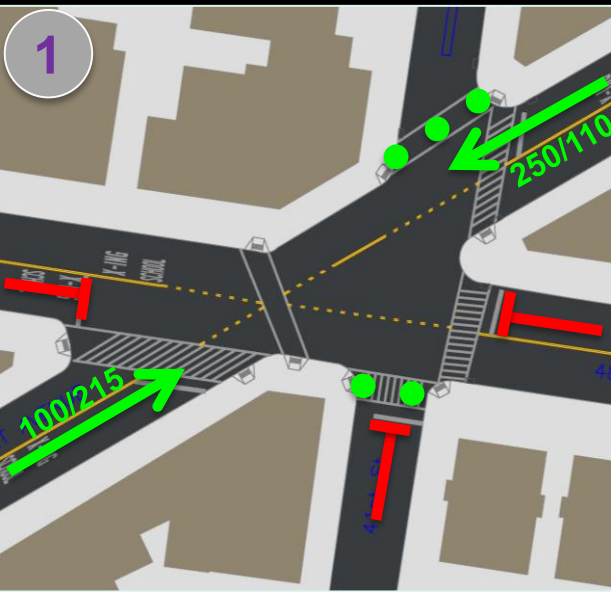


Proposed Plan

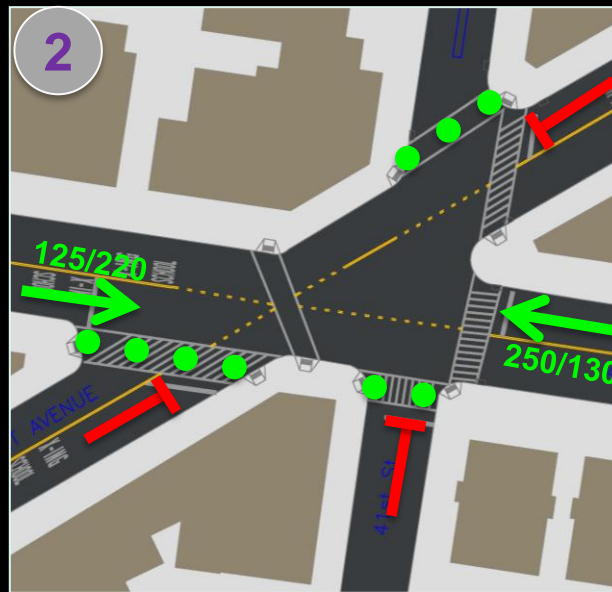


Existing Conditions

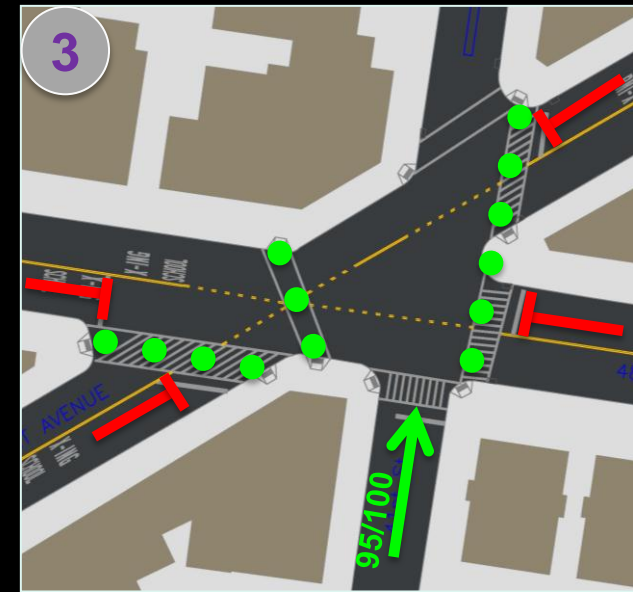
Three phase signal creates user confusion



Greenpoint Ave Phase
32 secs



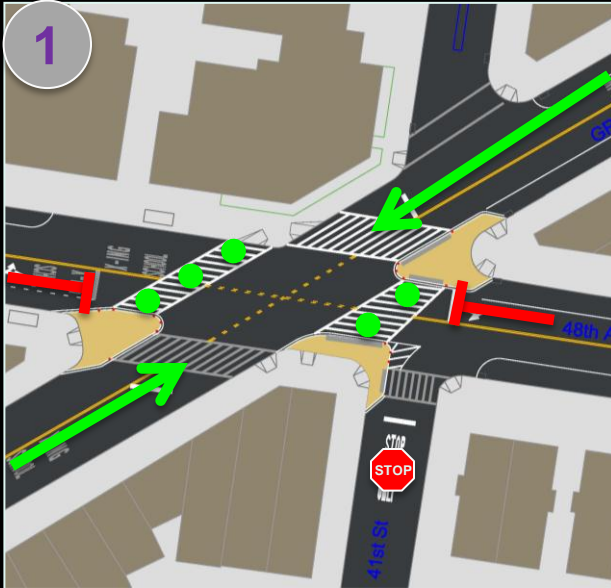
48th Ave Phase
24 secs



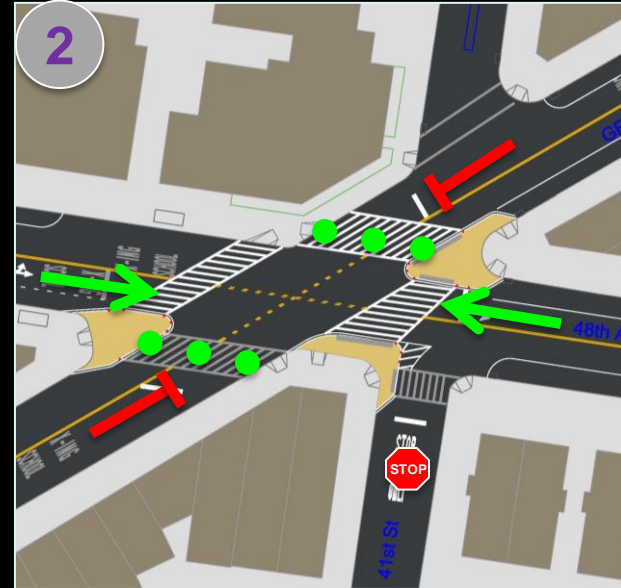
41st St Phase
34 secs

Two primary movements are held for 2/3 of each cycle

Proposed Plan



Greenpoint Ave Phase
54 secs



48th Ave Phase
36 secs

Standard two phase signal allows
more time for all movements

Existing Level of Service: D
Proposed Level of Service: B

Proposal Summary

1. Simplified 2-phase signal plan
2. Remove 41st St intersection from signal; right turn only
3. Reorganize crosswalks around Greenpoint Ave & 48th Ave intersection
4. Install painted sidewalk extensions
5. Install turning movement bans





www.nyc.gov/dot

Thank
You