



Northeastern University

WELCOME TO THE
2009 SENIOR
TRANSPORTATION
CAPSTONE DESIGN
PRESENTATIONS





Boylston Street and Public Garden Cycle Track

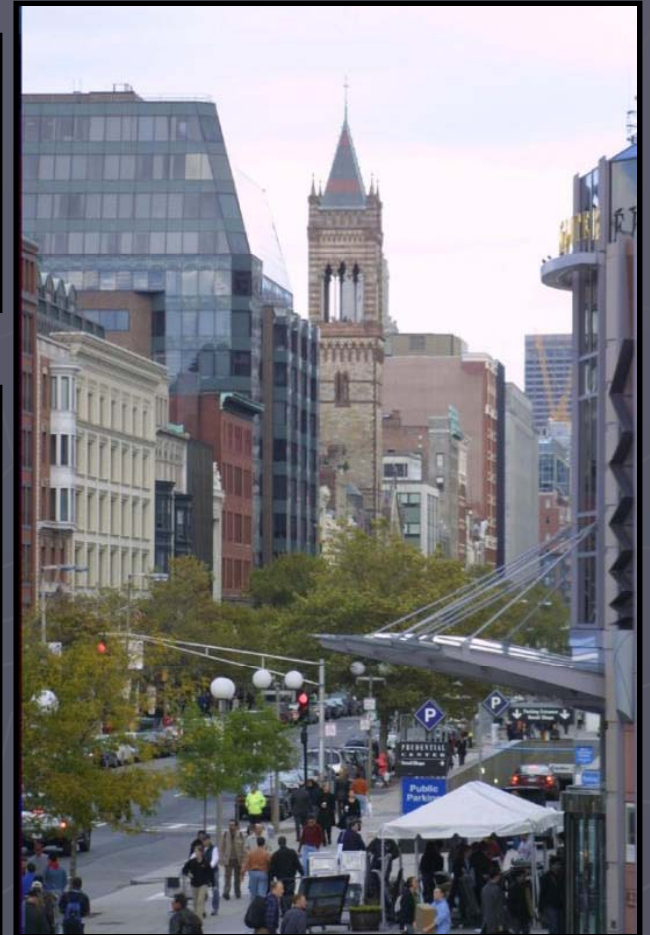
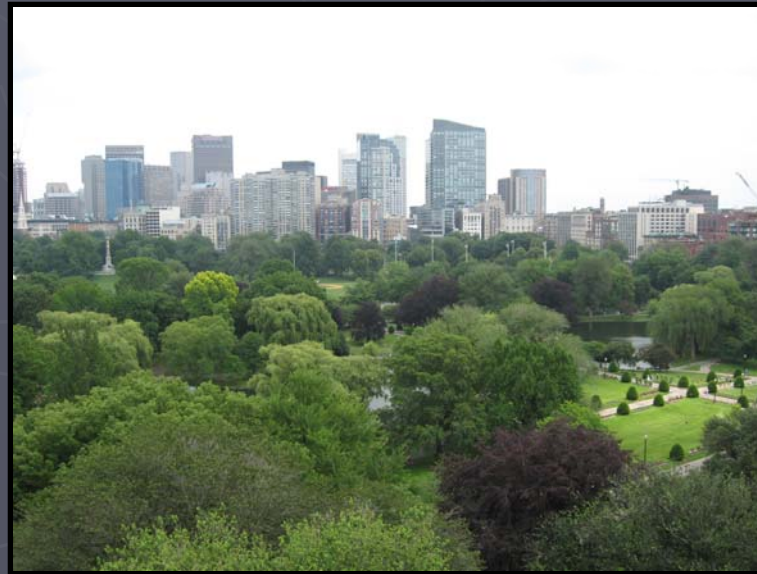
HarborRide

Old Colony Bikeway

Lee/Clyde Street Greenway, Brookline



BOYLSTON ST. AND PUBLIC GARDEN CYCLE TRACK



Boylston Boneshakers

James Barnack

Sean Carr

Tom Leduc

Dan Liepins



Northeastern University

OBJECTIVES

- ▶ Overview
- ▶ Why a cycle track?
- ▶ Boylston Street
- ▶ Intersection at Dartmouth Street
- ▶ Intersection at Fenway
- ▶ Intersection at Massachusetts Ave
- ▶ Public Garden
- ▶ Conclusion



OVERVIEW



OVERVIEW



OVERVIEW



WHY A CYCLE TRACK?

Best of Both Worlds

Bicycle Lane



Bicycle Path

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Bicycle Path



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Bicycle Path

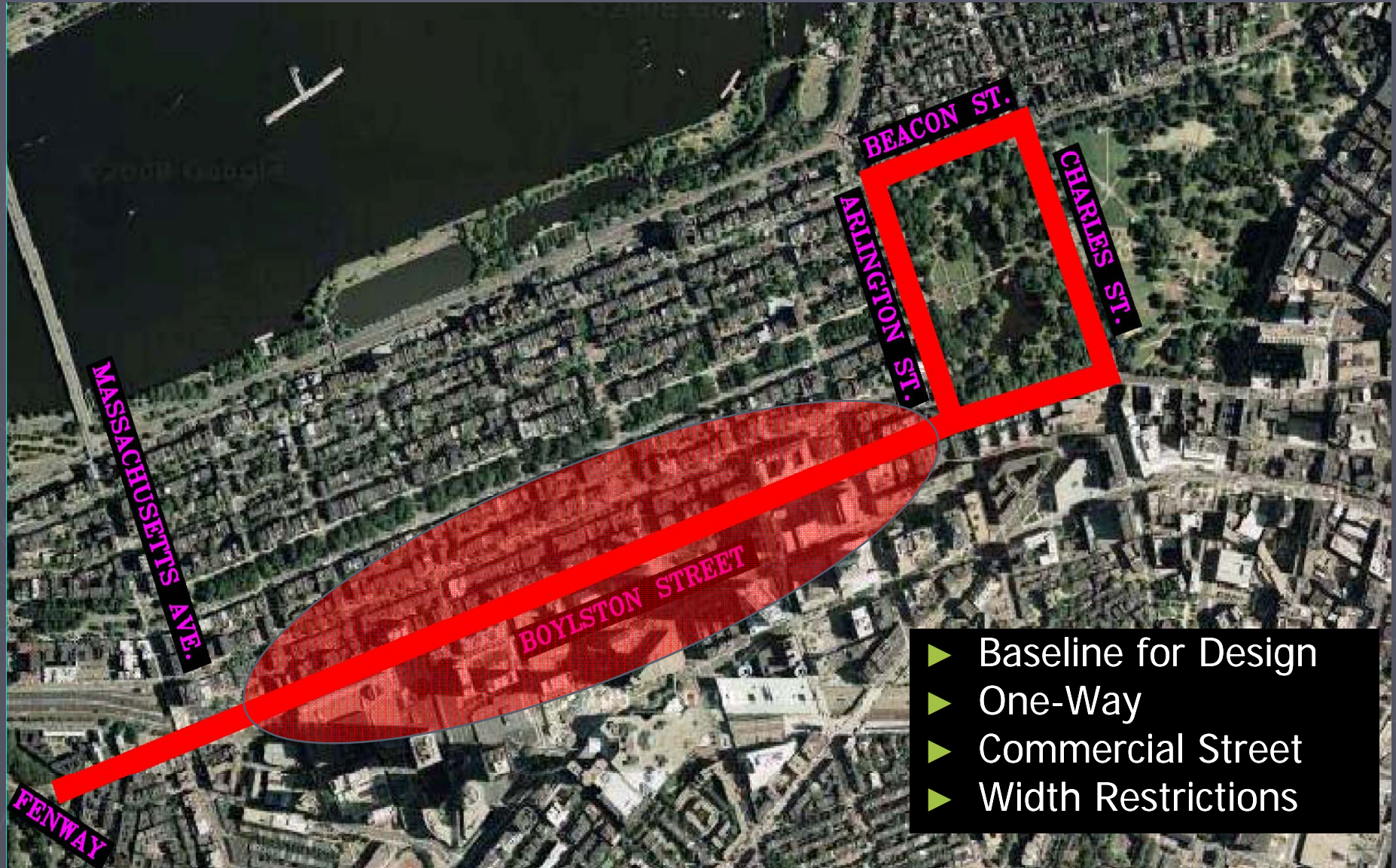


WHY A CYCLE TRACK?



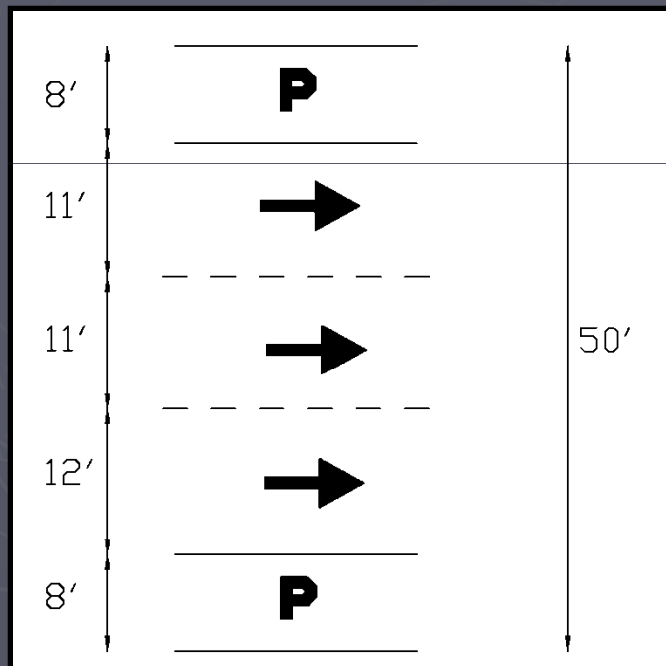
- ▶ Separated
- ▶ No vehicular access
- ▶ Direct

BOYLSTON STREET



BOYLSTON STREET

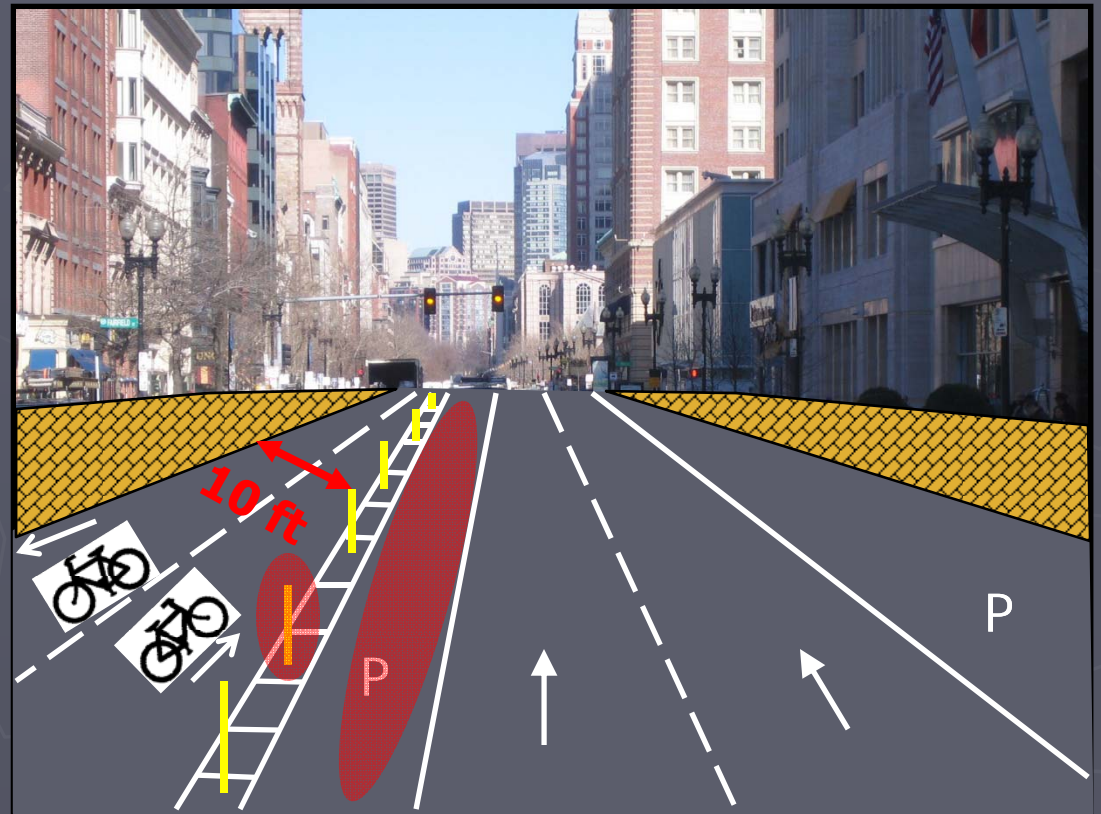
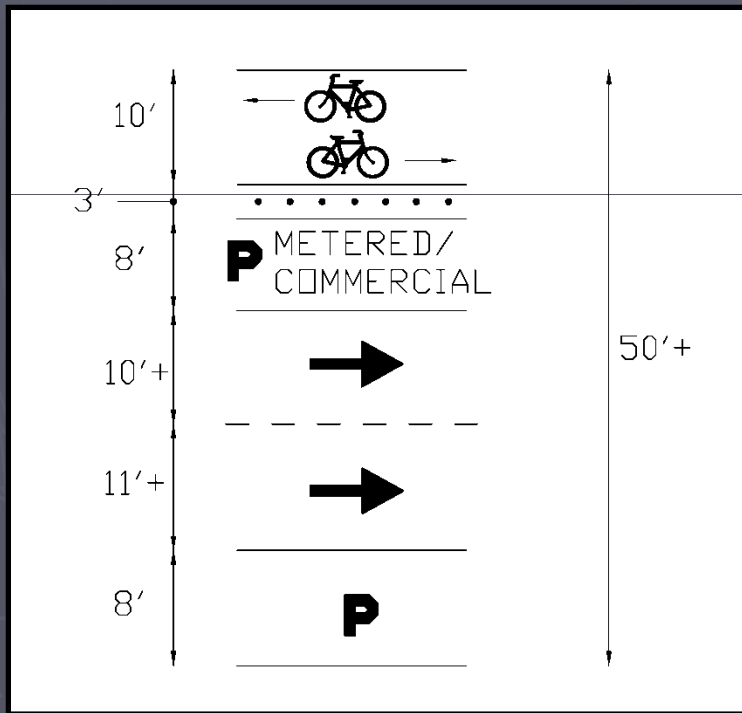
Critical Section



Existing

BOYLSTON STREET

Critical Section



Proposed

BOYLSTON ST. AT DARTMOUTH ST.

BUILDINGS

PROPOSED
POLES



DETAIL BUILD

ZO

CONCRETE

ONLY

P

P



P

P

STAND

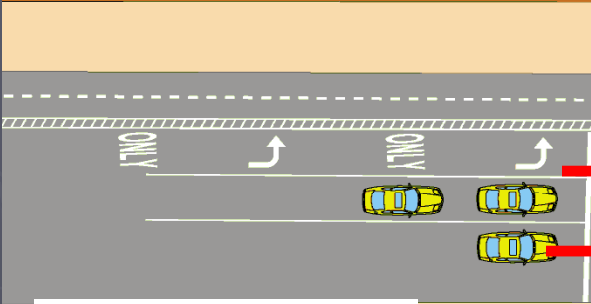
TRE

BOYLSTON ST. AT DARTMOUTH ST.

BUILDINGS

PROPOSED CYCLE SIGNAL
POLES

COPLEY STATION



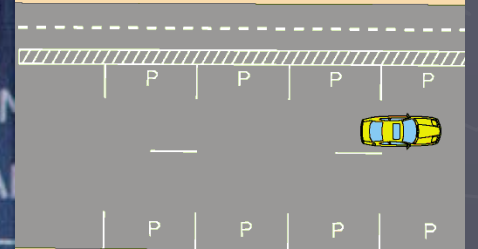
Boylston Street

STAND



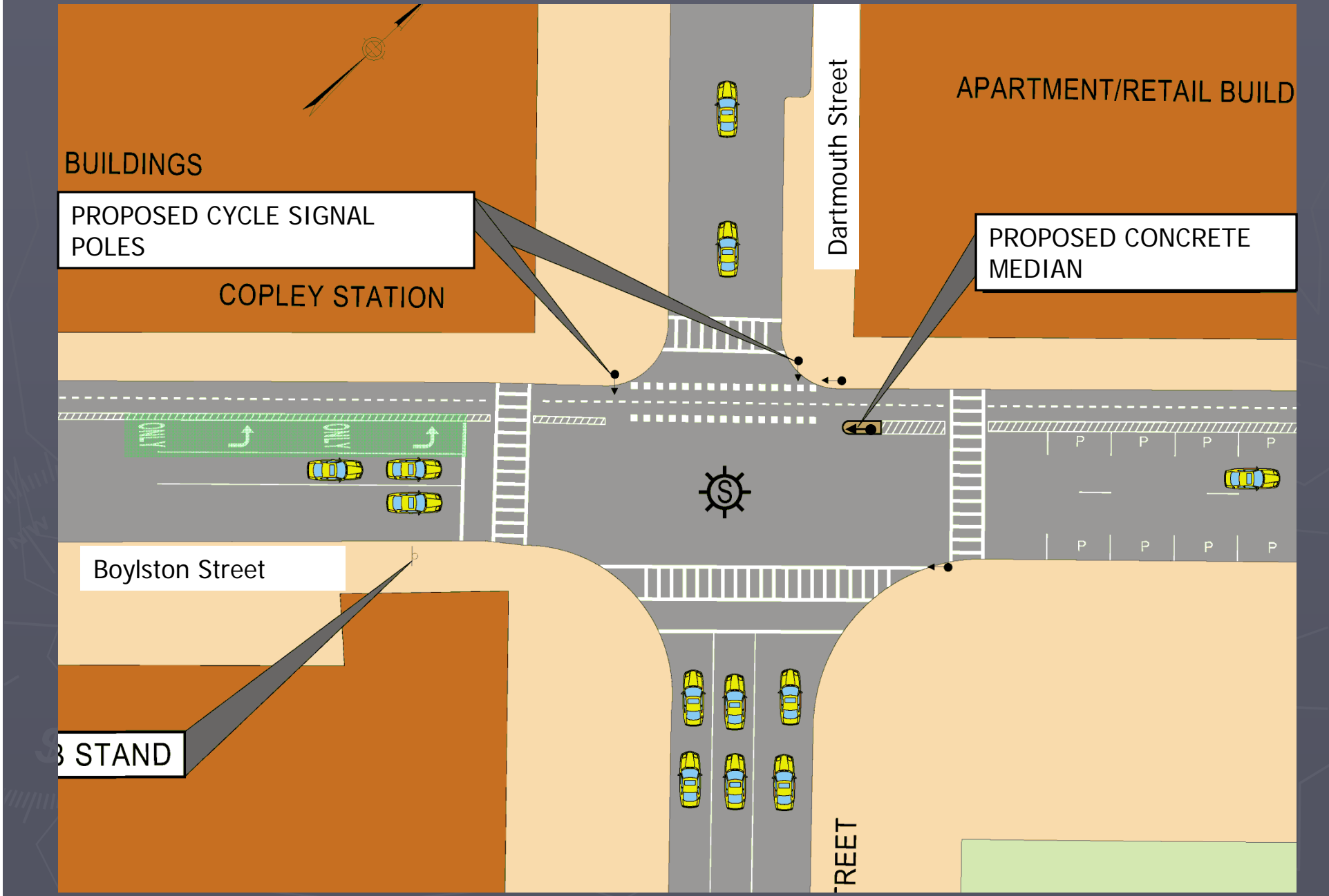
APARTMENT/RETAIL BUILD

PROPOSED CONCRETE
MEDIAN

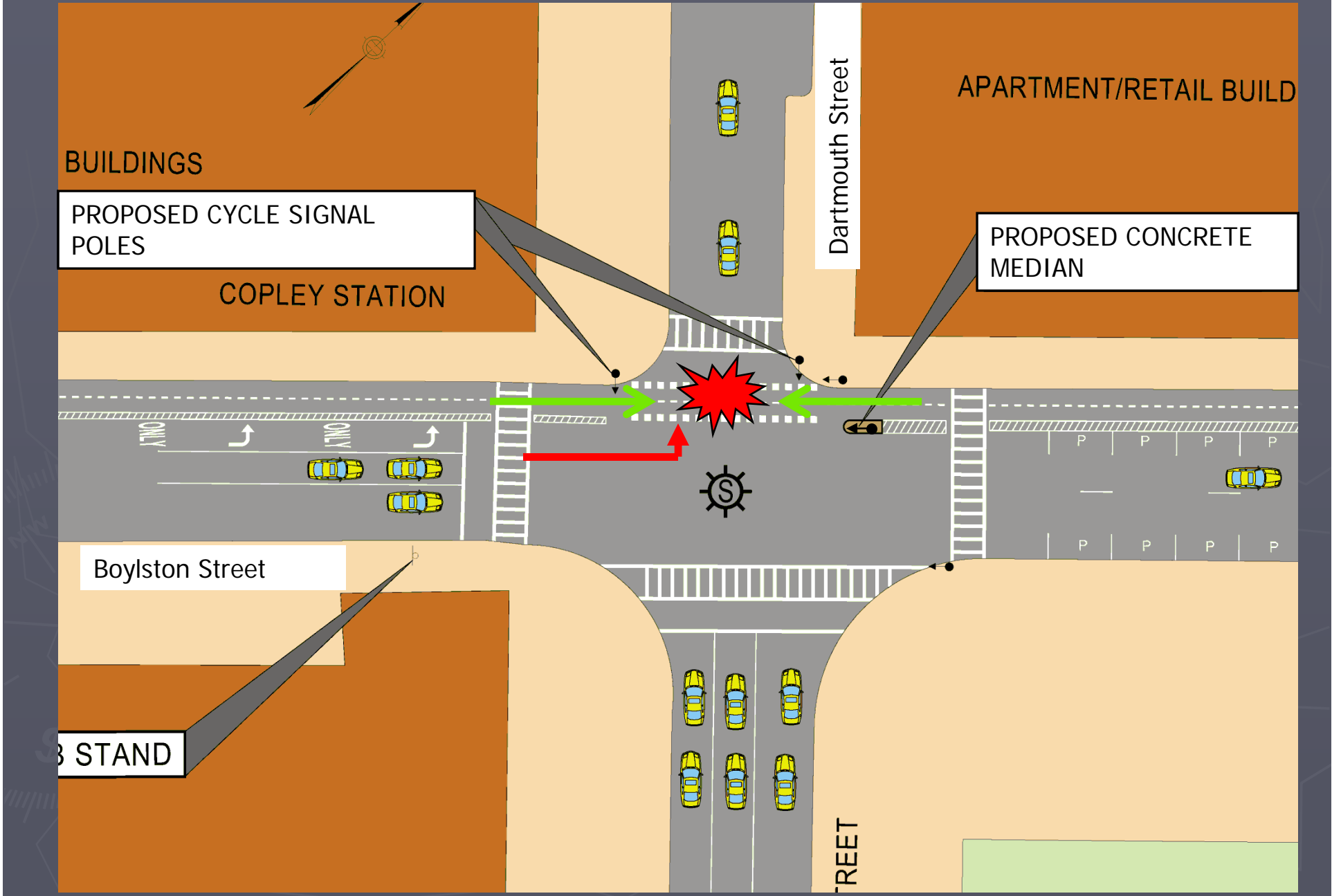


STREET

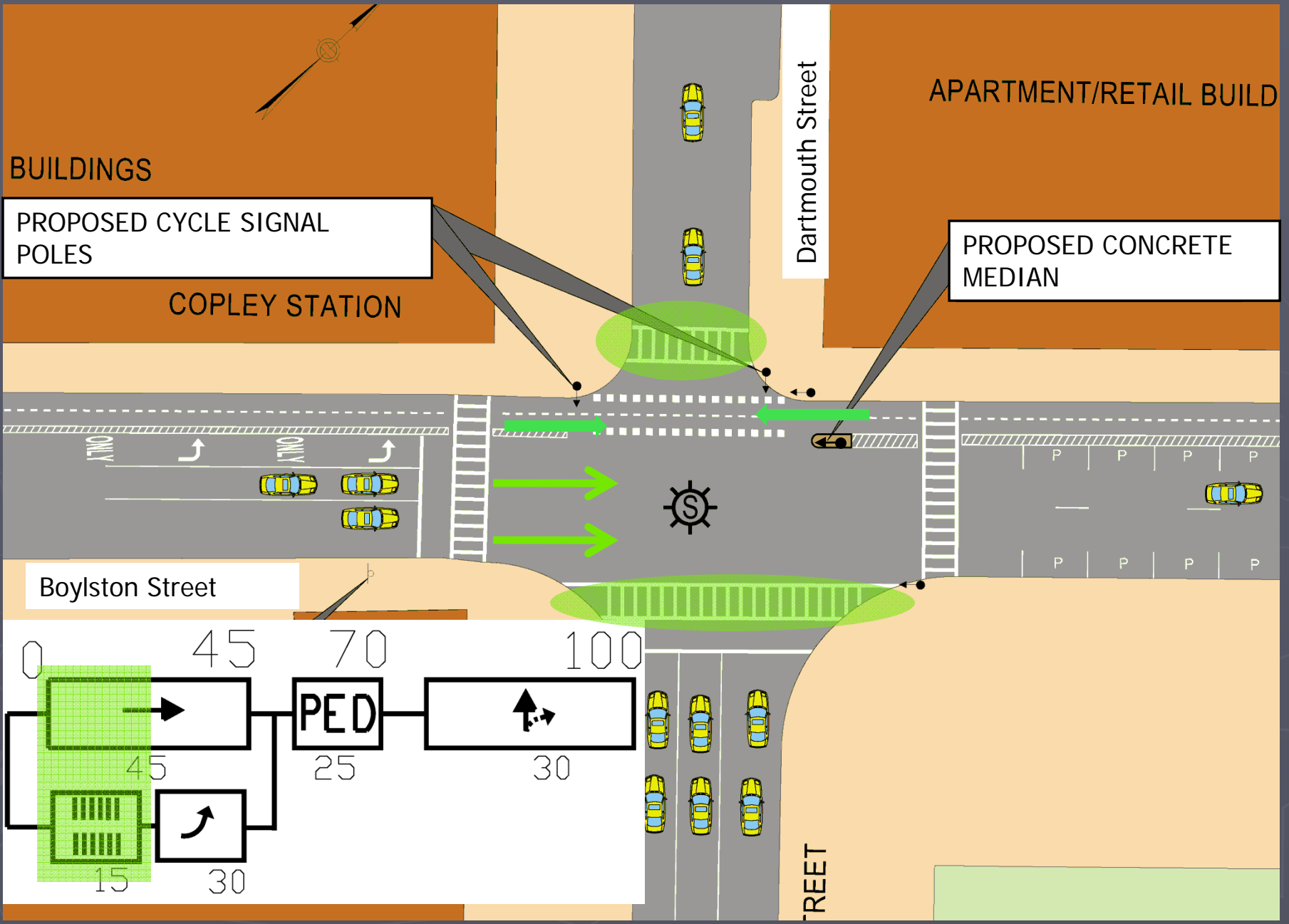
BOYLSTON ST. AT DARTMOUTH ST.



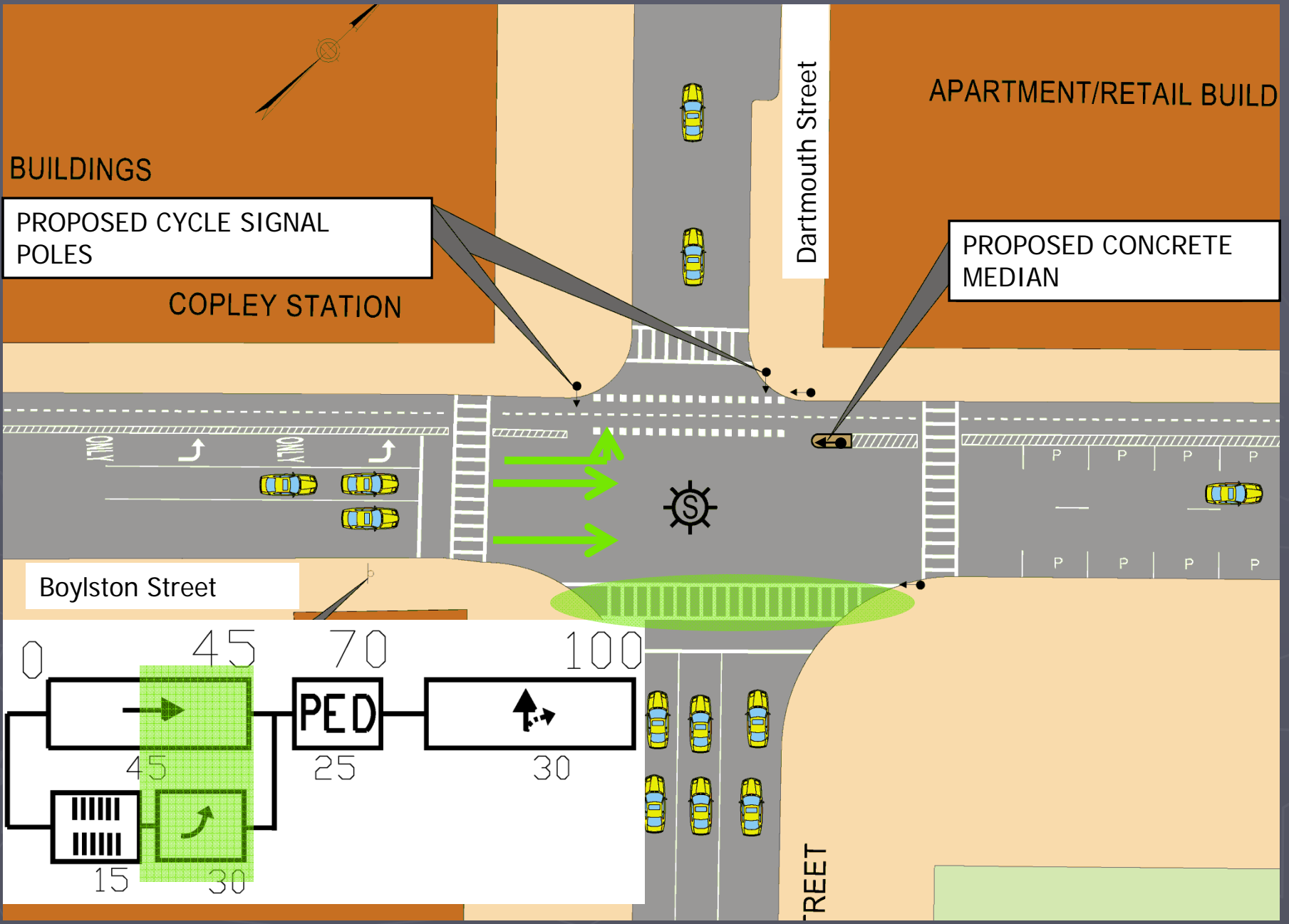
BOYLSTON ST. AT DARTMOUTH ST.



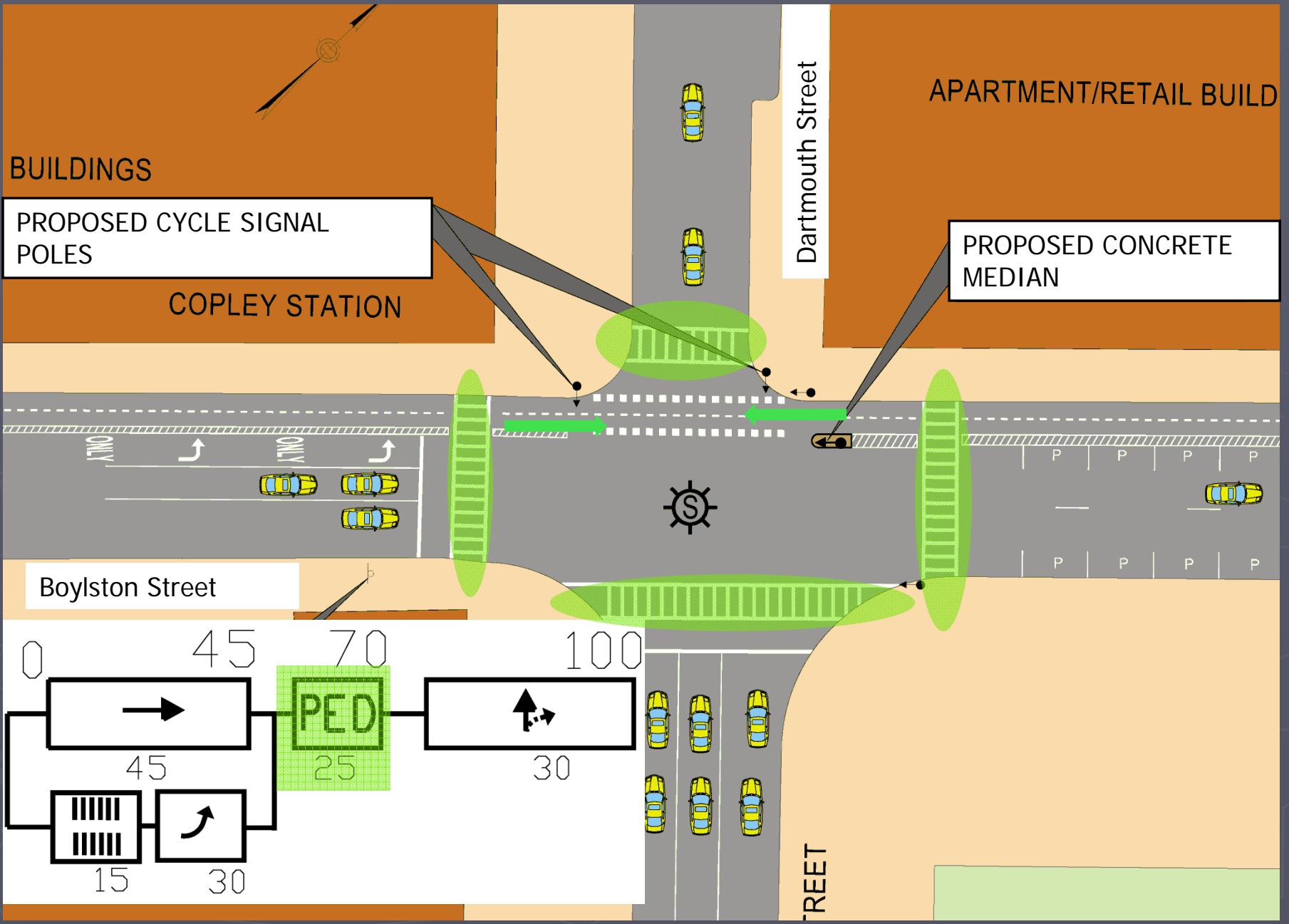
BOYLSTON ST. AT DARTMOUTH ST.



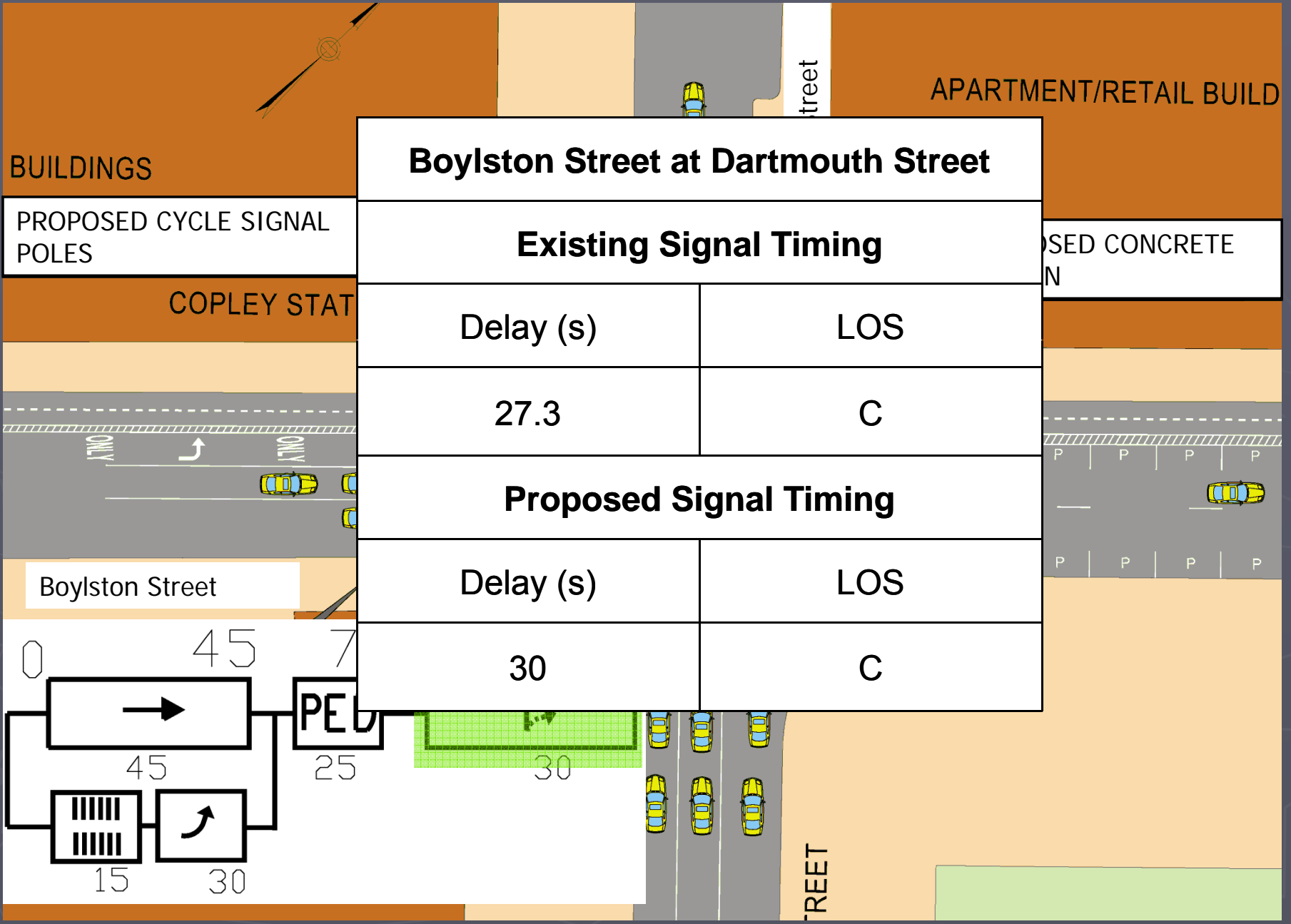
BOYLSTON ST. AT DARTMOUTH ST.



BOYLSTON ST. AT DARTMOUTH ST.

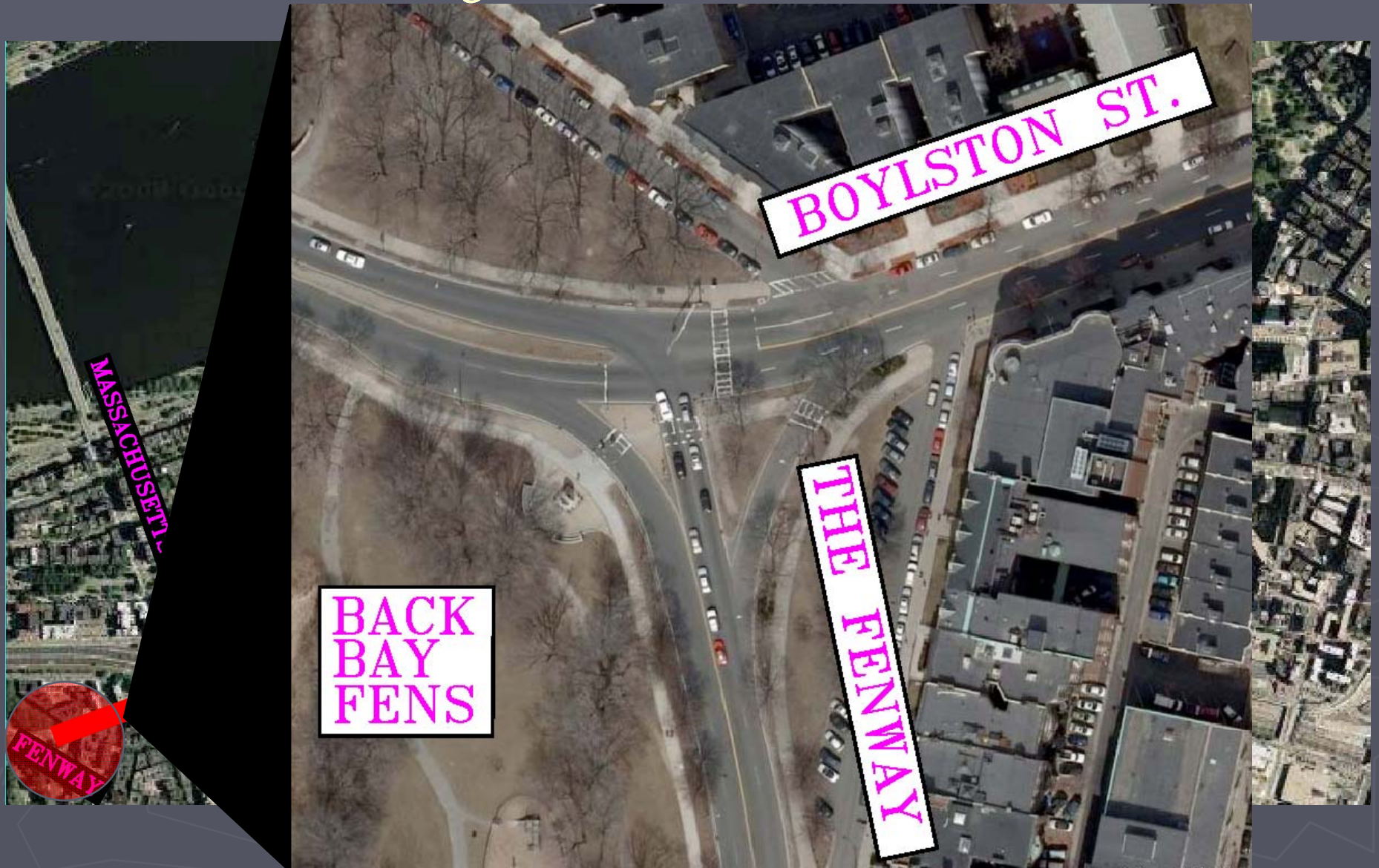


BOYLSTON ST. AT DARTMOUTH ST.



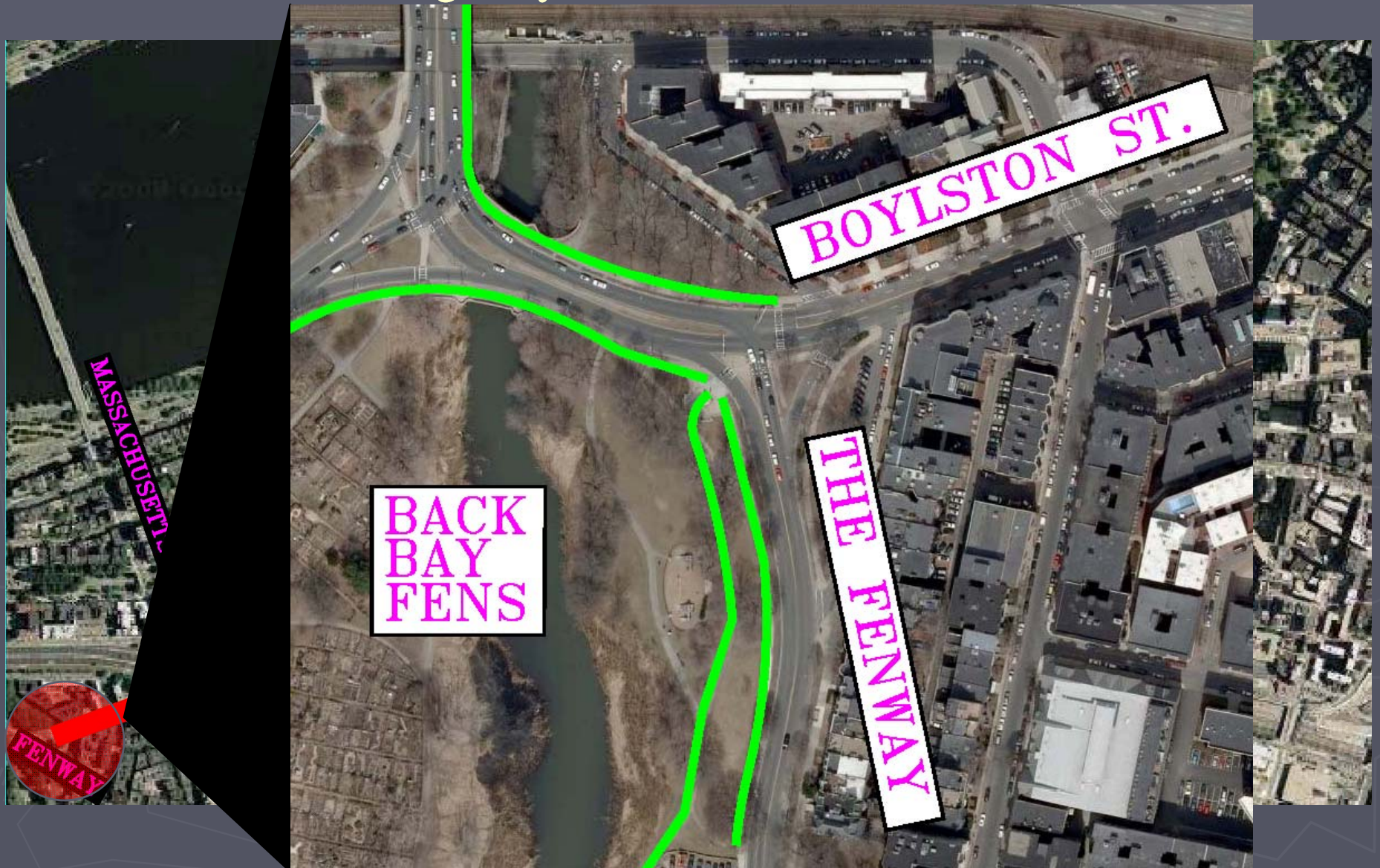
BOYLSTON ST. AT FENWAY

Existing Conditions



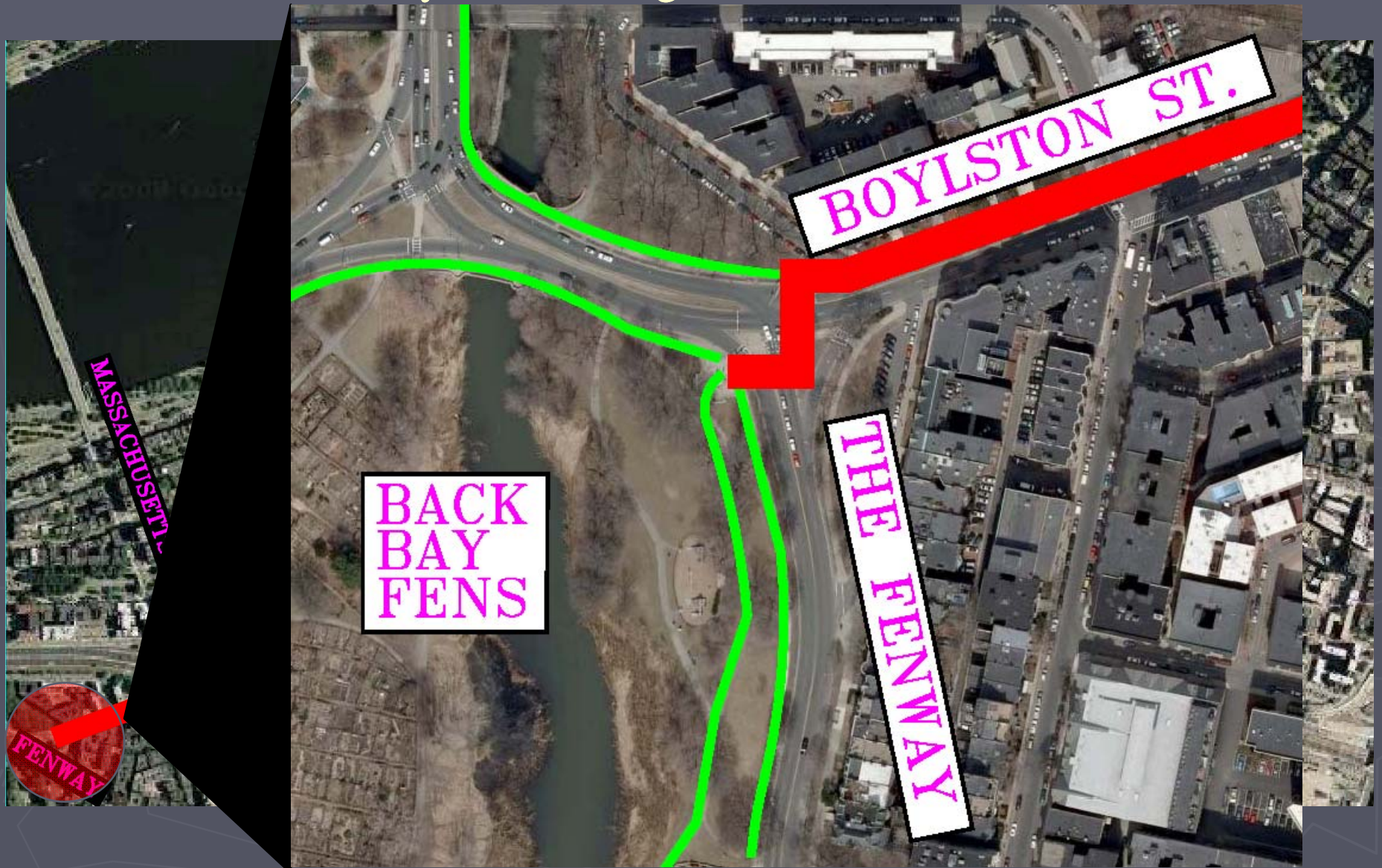
BOYLSTON ST. AT FENWAY

Existing Bicycle Paths



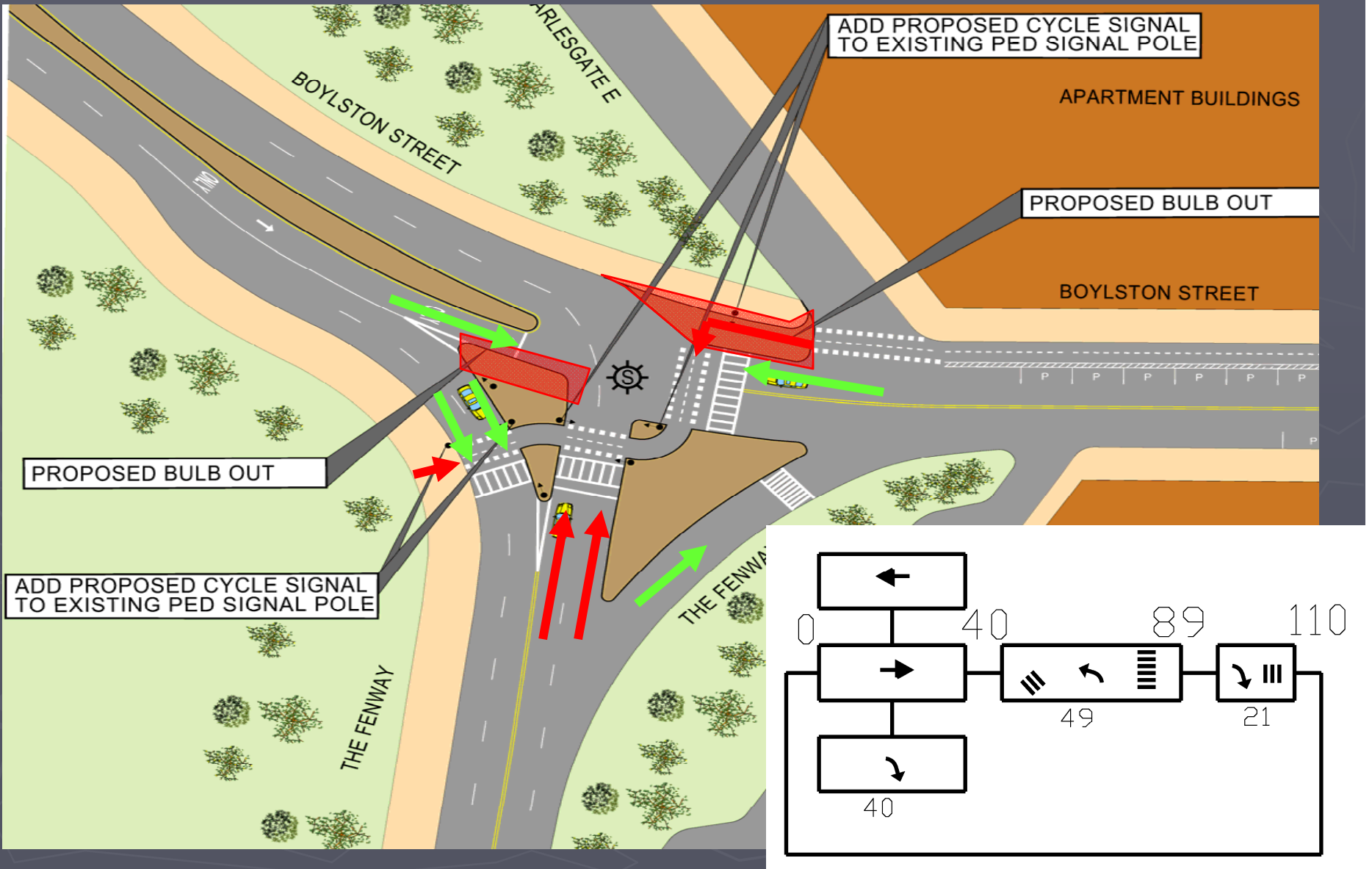
BOYLSTON ST. AT FENWAY

Bicycle Crossing



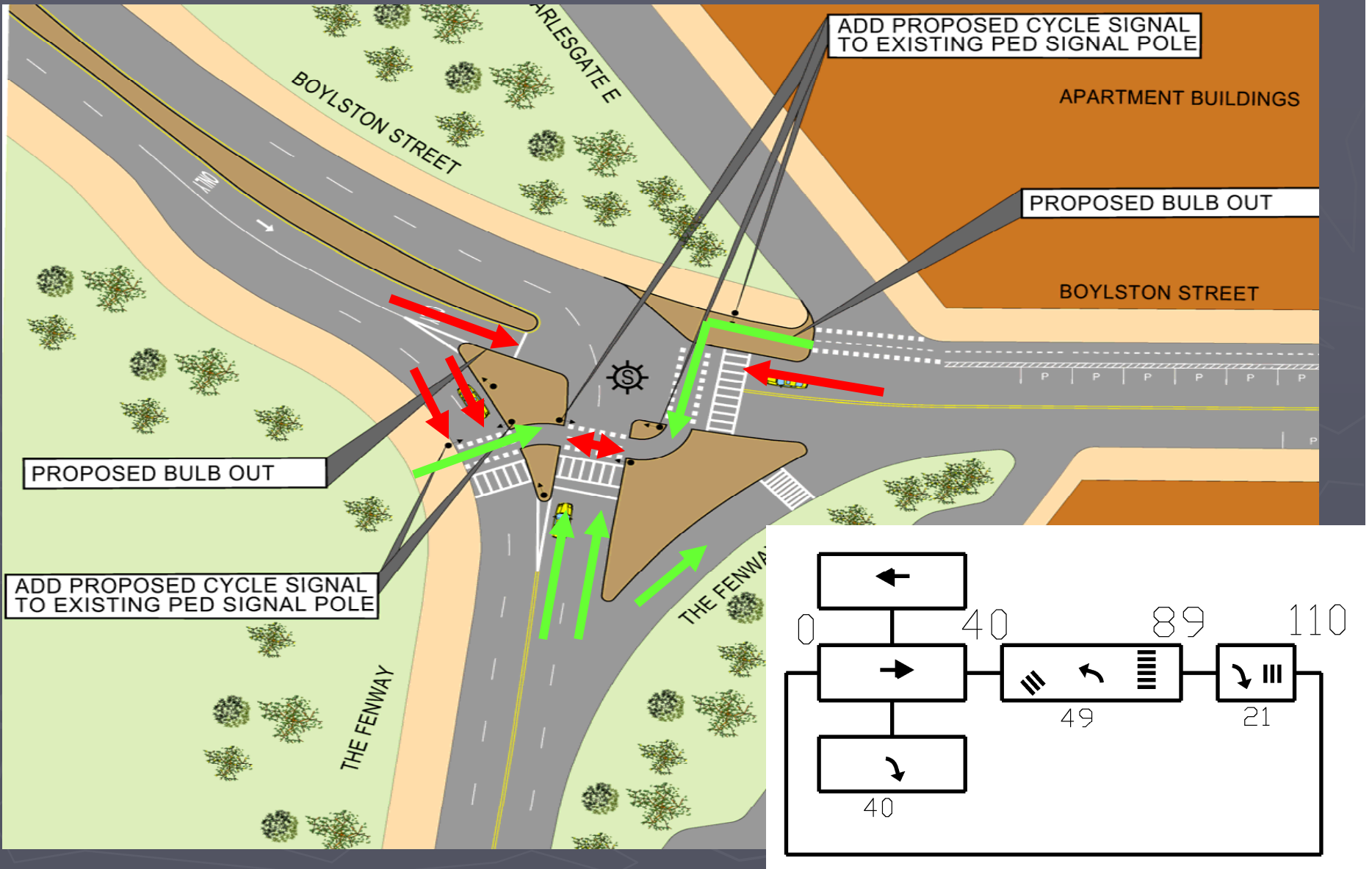
BOYLSTON ST. AT FENWAY

Conceptual Design



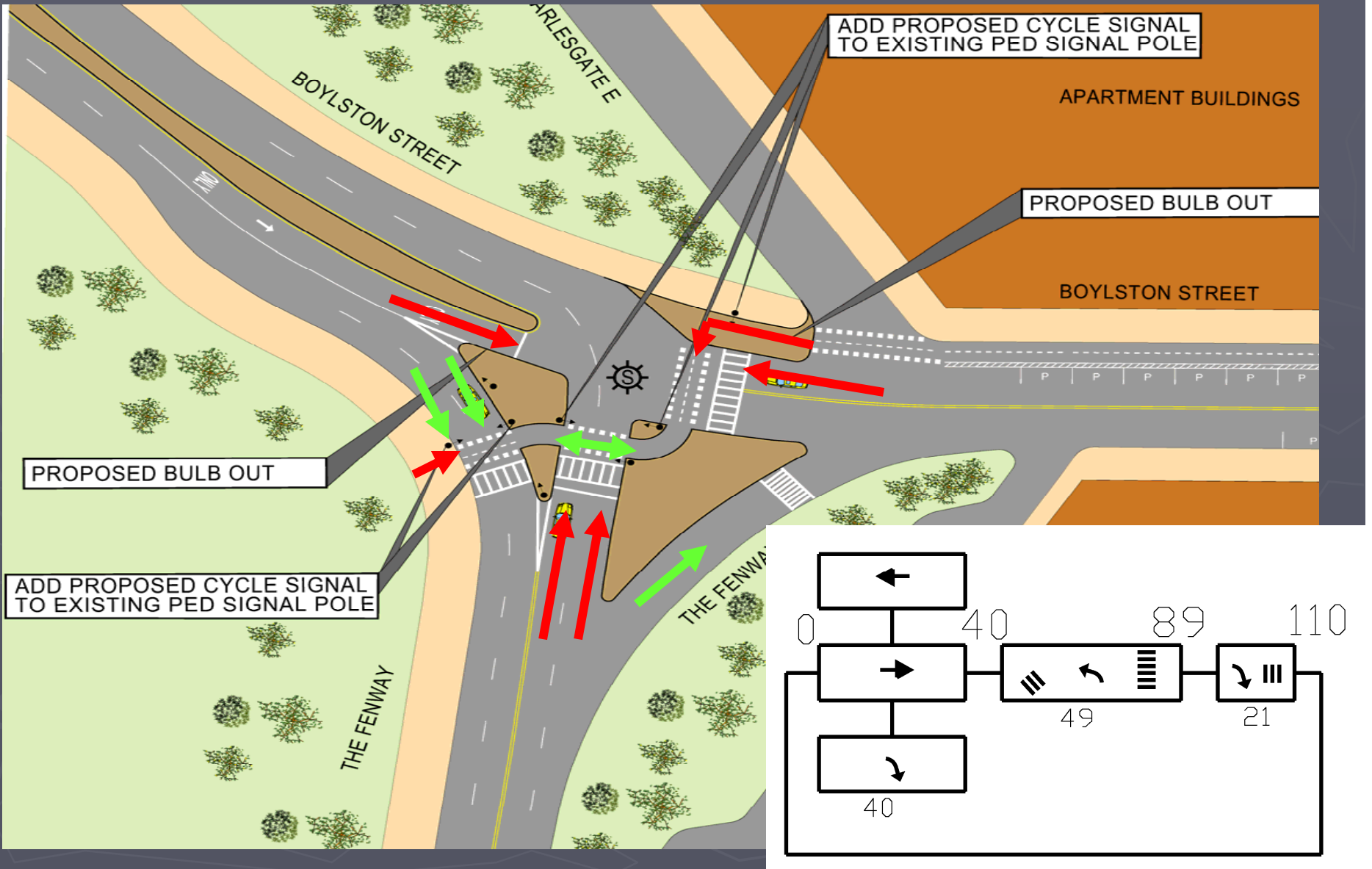
BOYLSTON ST. AT FENWAY

Conceptual Design



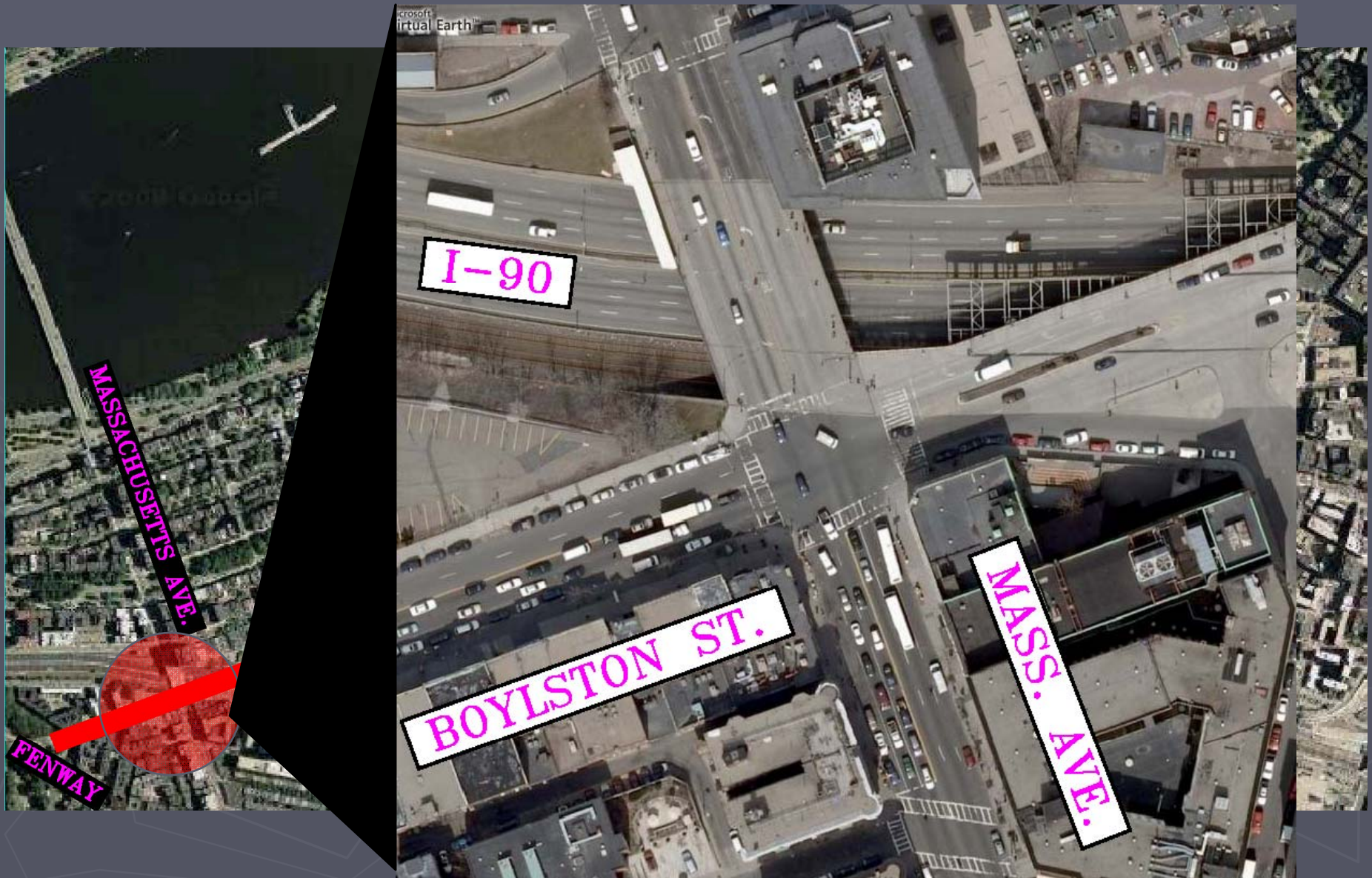
BOYLSTON ST. AT FENWAY

Conceptual Design



BOYLSTON ST. AT MASS. AVE

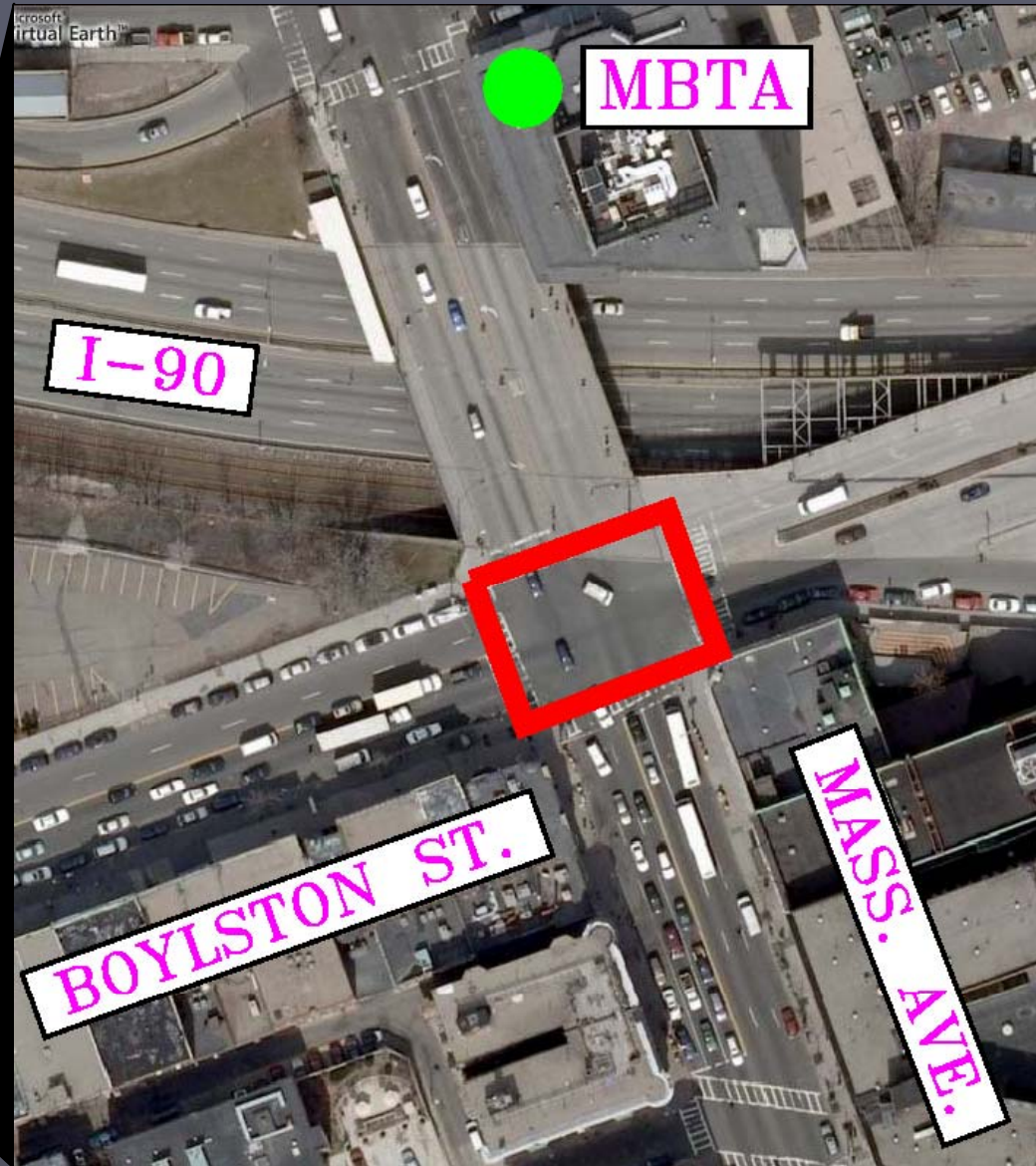
Existing Conditions



BOYLSTON ST. AT MASS. AVE

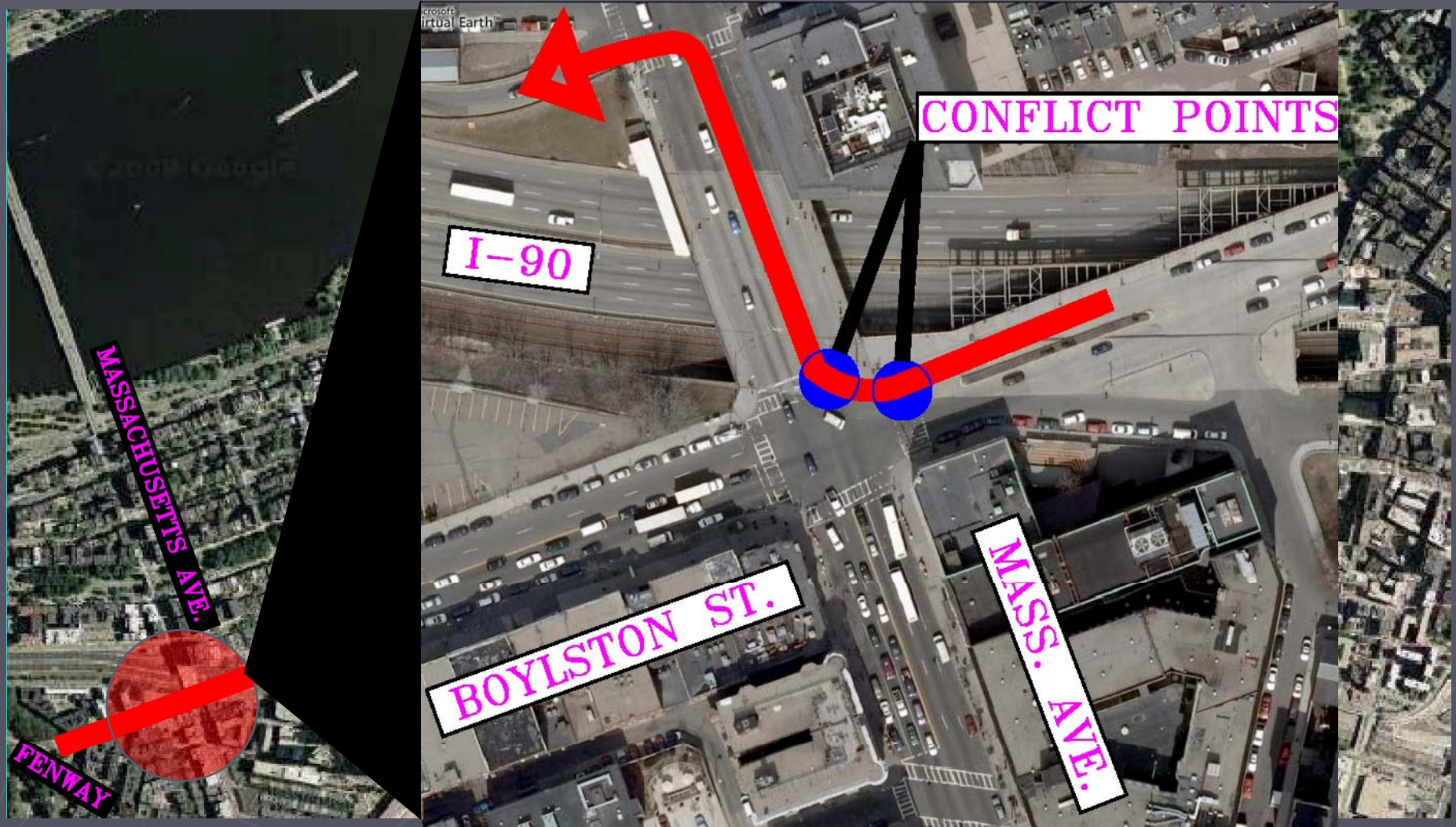
Existing Conditions

- ▶ High pedestrian conflicts
- ▶ Non-compliance
- ▶ MBTA B,C,D Lines
 - Hynes Convention Center



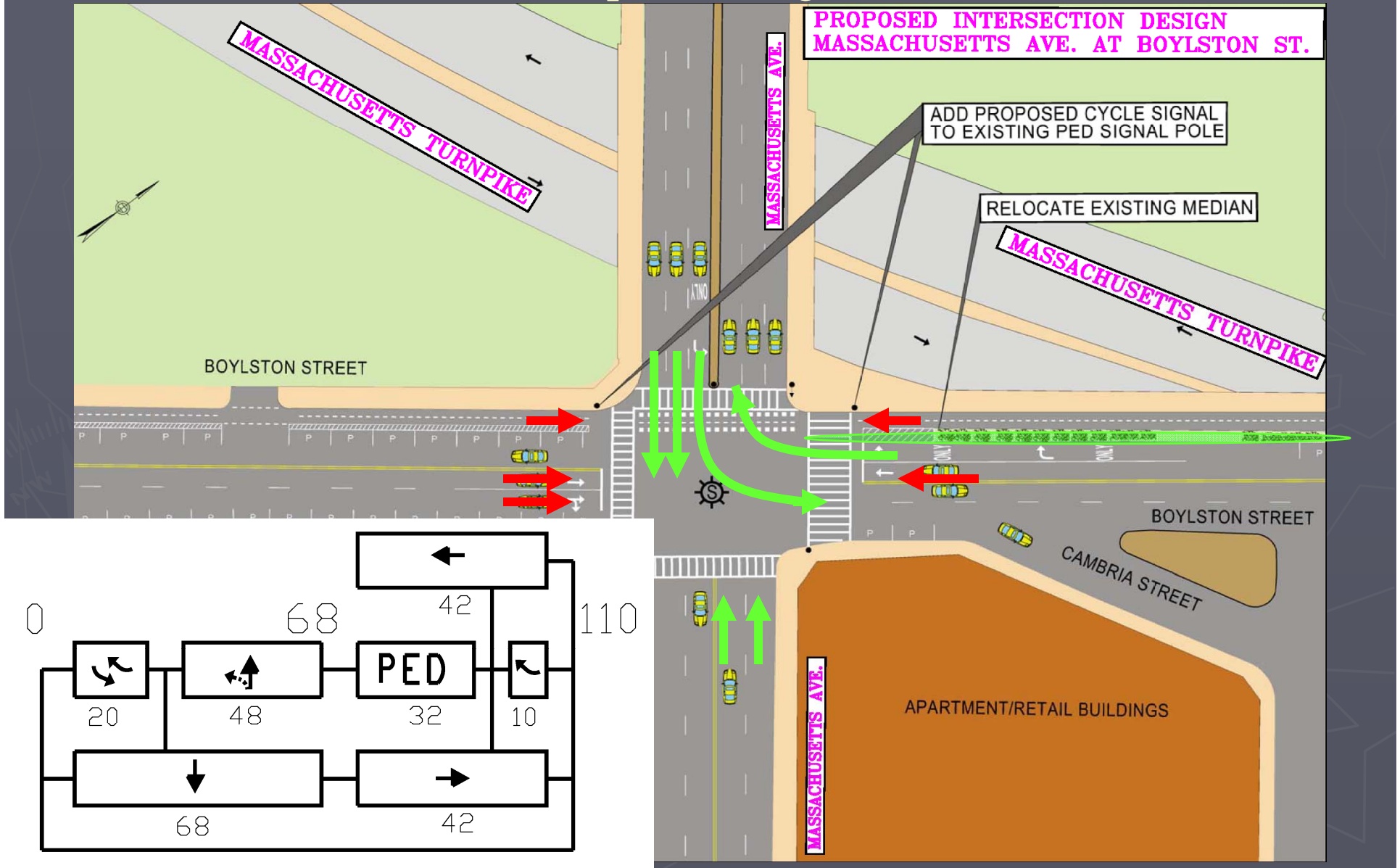
BOYLSTON ST. AT MASS. AVE

Existing Conditions



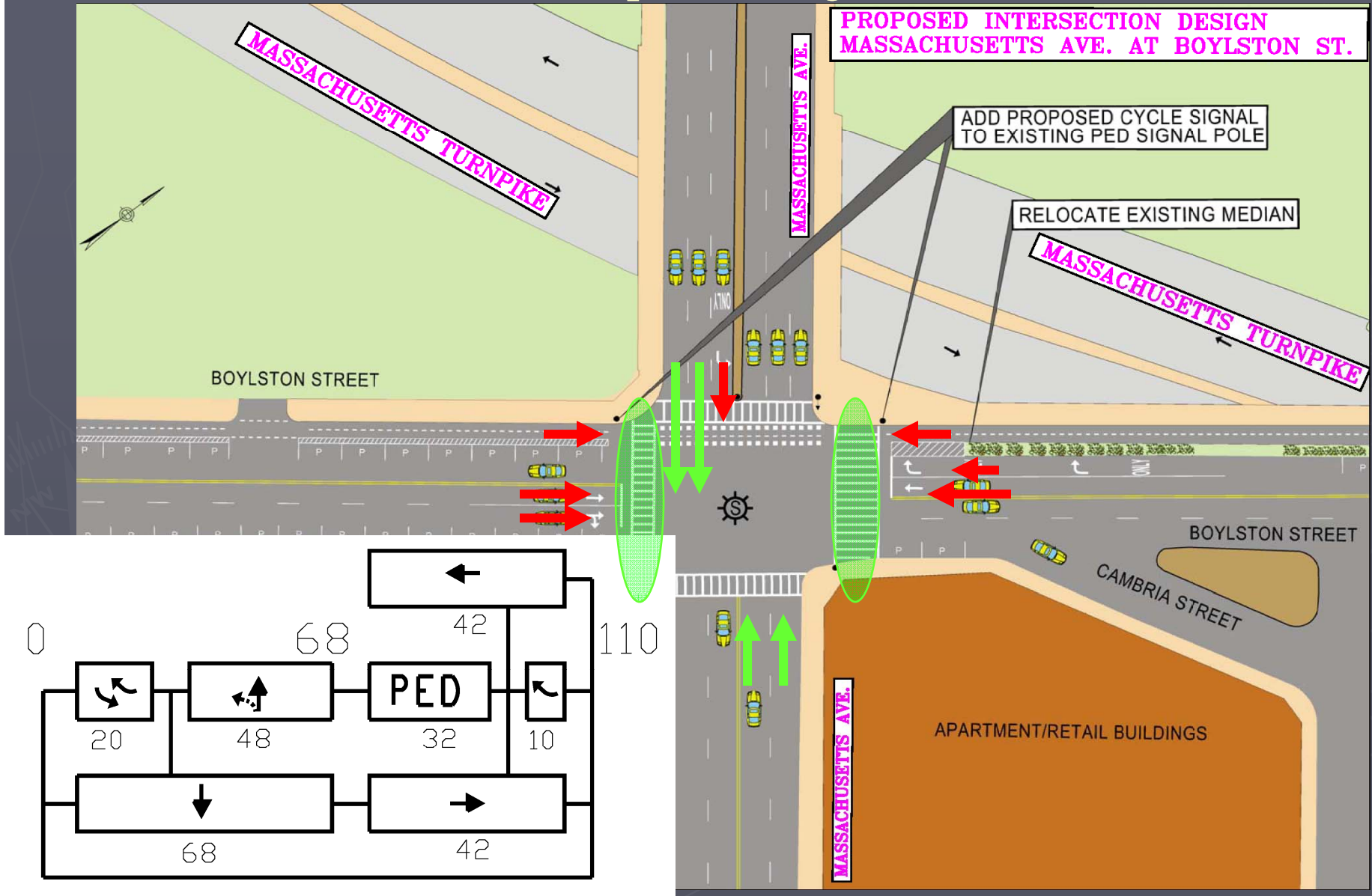
BOYLSTON ST. AT MASS. AVE

Conceptual Design



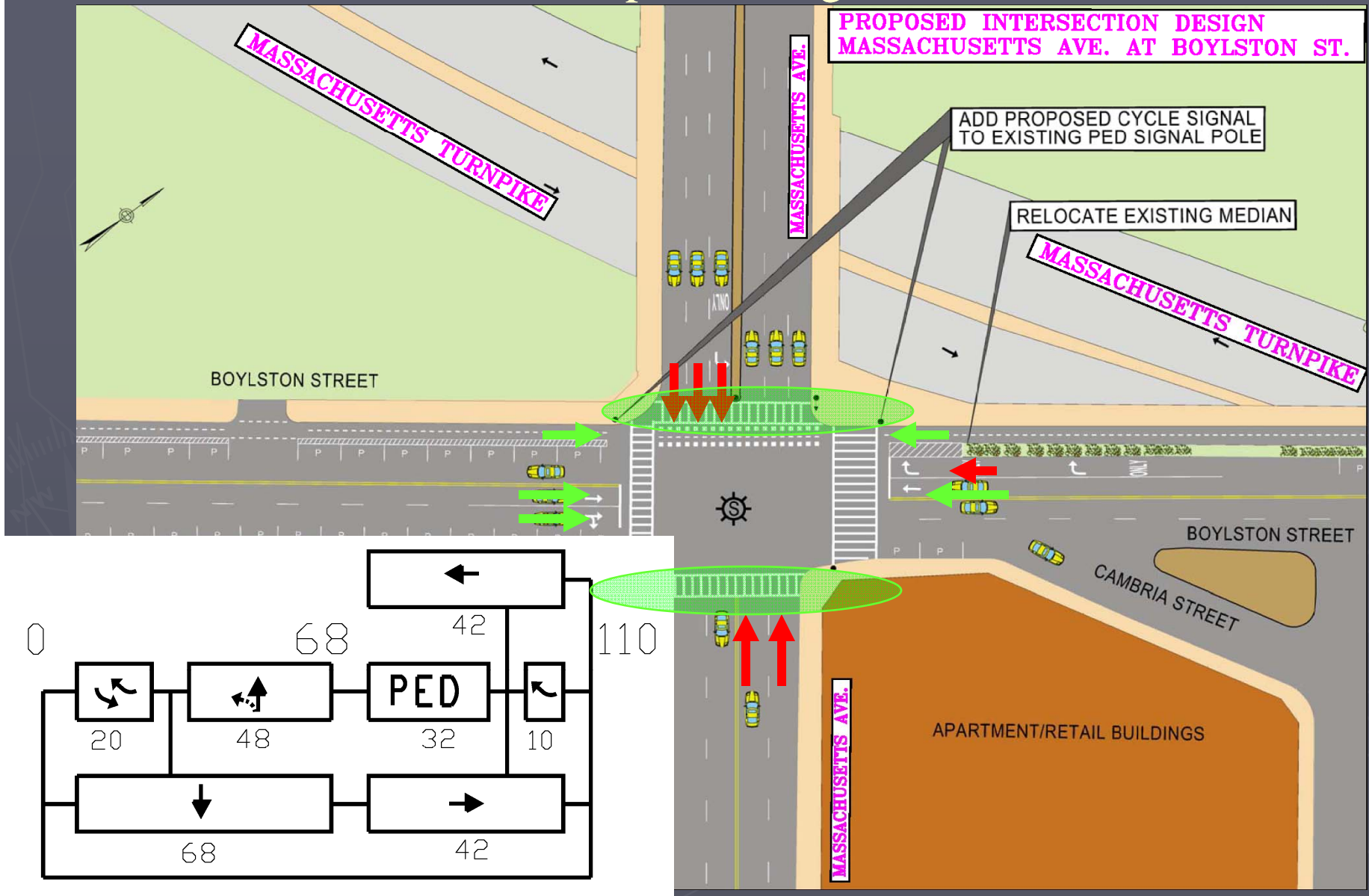
BOYLSTON ST. AT MASS. AVE

Conceptual Design



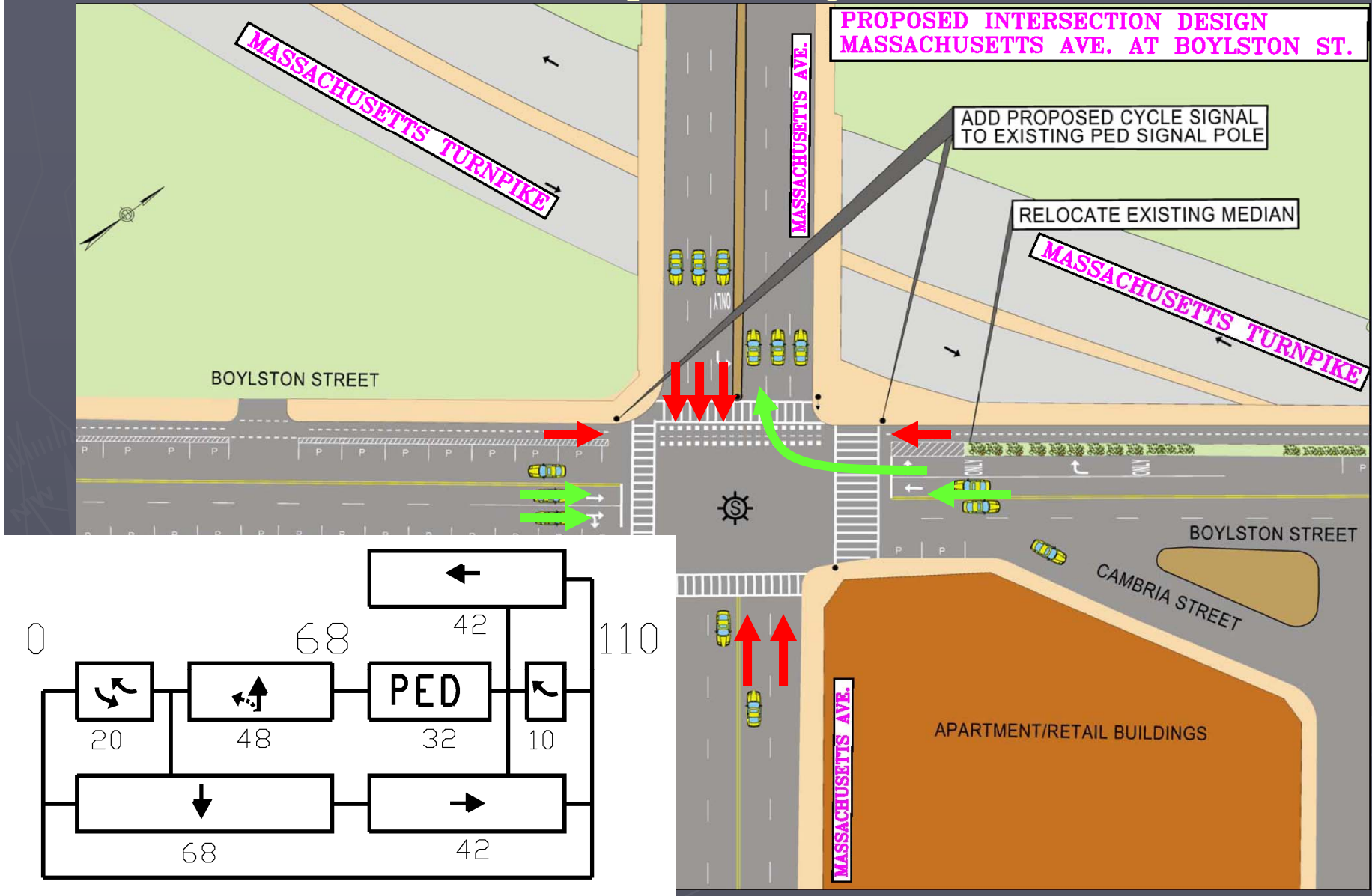
BOYLSTON ST. AT MASS. AVE

Conceptual Design



BOYLSTON ST. AT MASS. AVE

Conceptual Design



THE PUBLIC GARDEN



THE PUBLIC GARDEN

- ▶ Symbol of Boston
- ▶ No Bikes Allowed



THE PUBLIC GARDEN

Existing Conditions



Beacon Street



Charles Street



Arlington Street

THE PUBLIC GARDEN

Existing Conditions



Beacon Street



Charles Street



Cyclist in Traffic



Arlington Street

THE PUBLIC GARDEN

Existing Conditions



THE PUBLIC GARDEN

Proposed Design



THE PUBLIC GARDEN

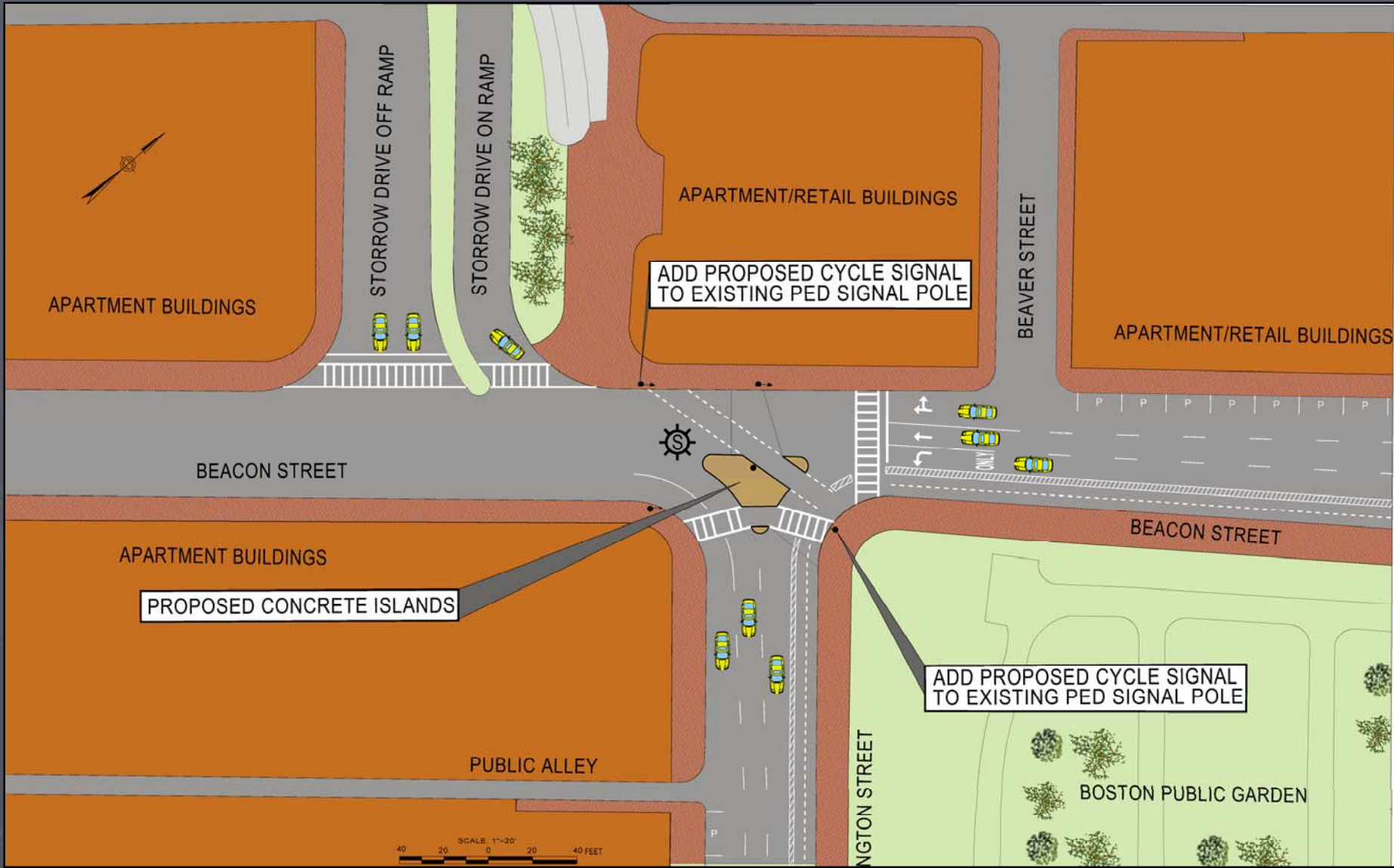
Proposed Design



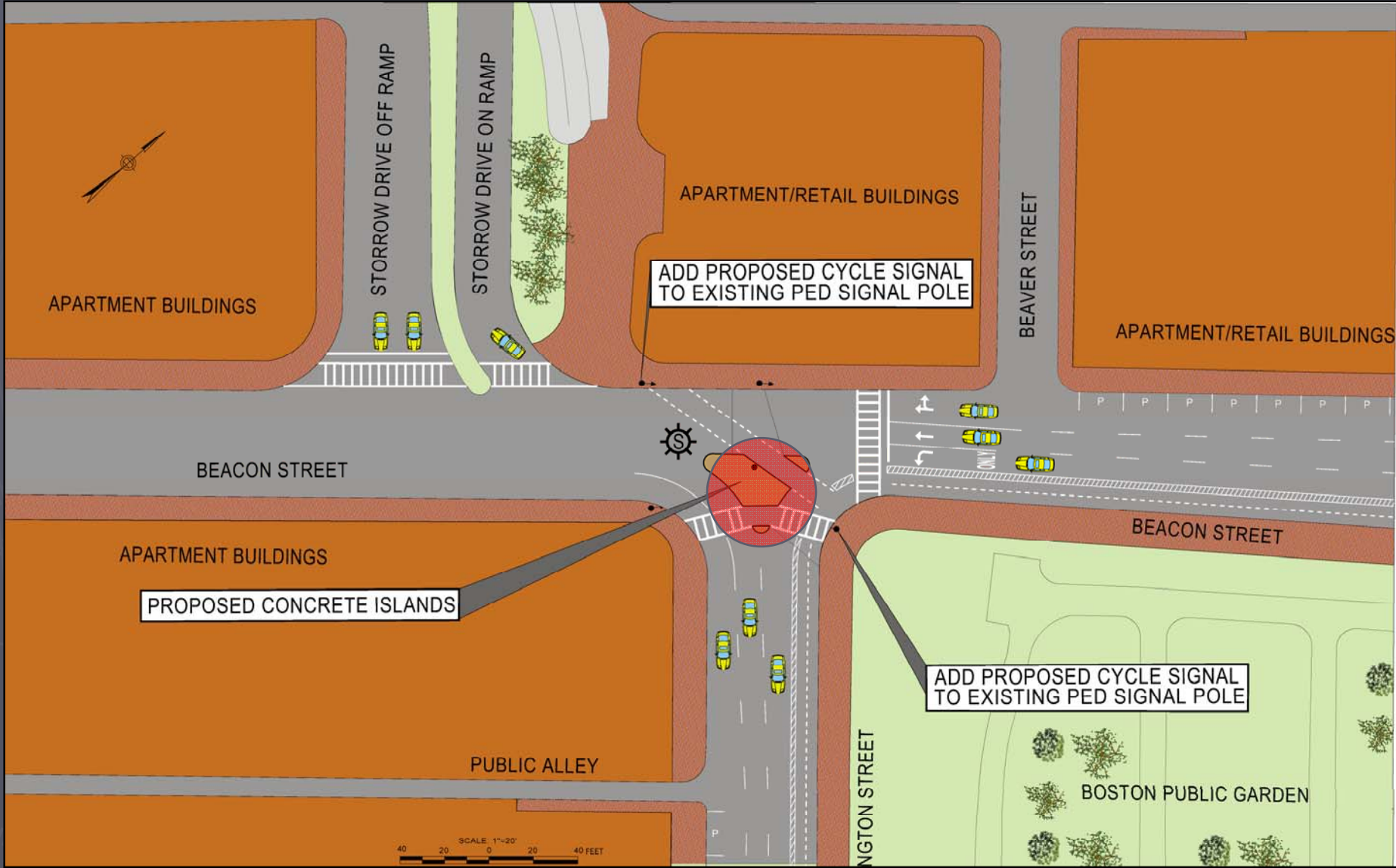
THE PUBLIC GARDEN



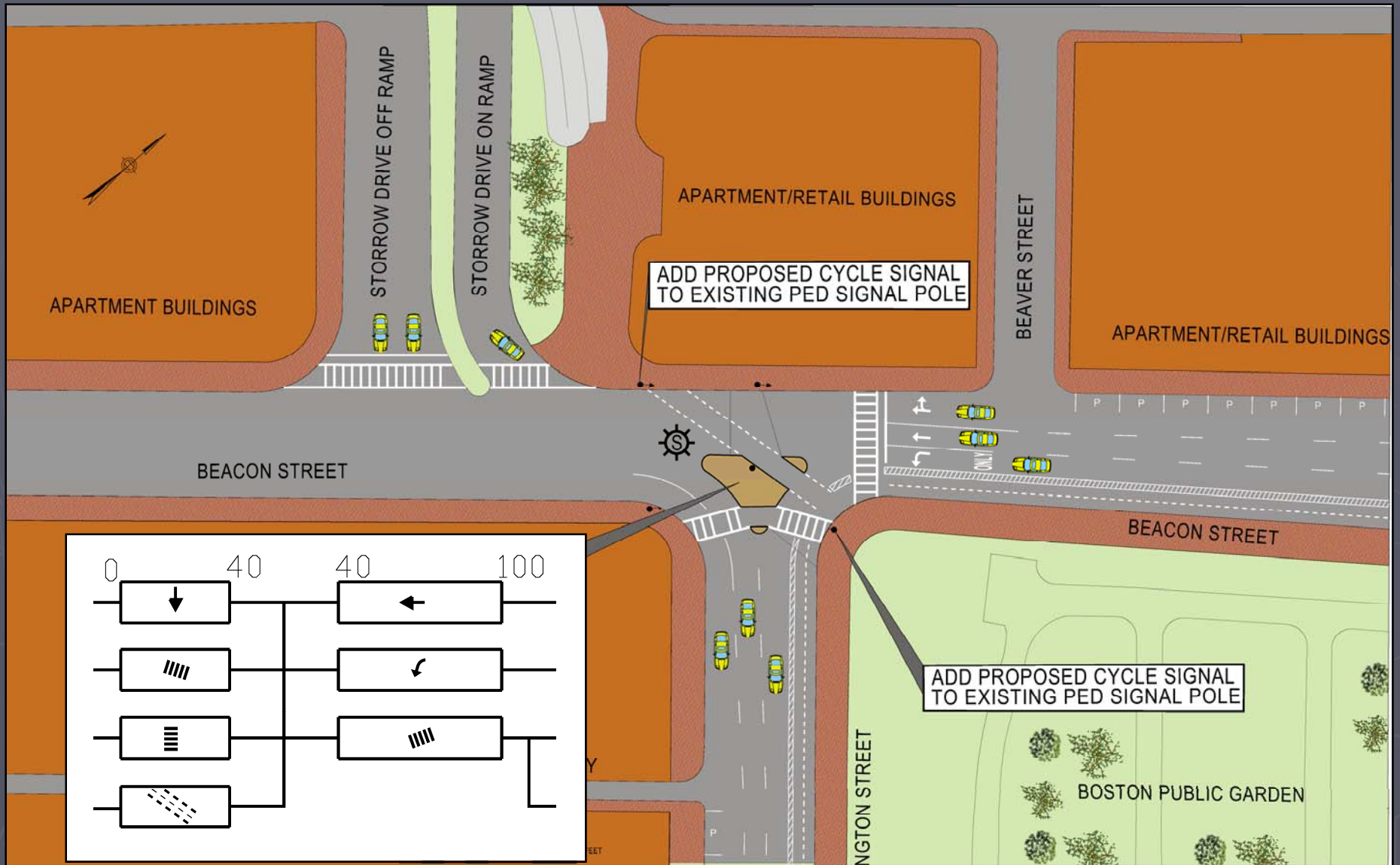
THE PUBLIC GARDEN



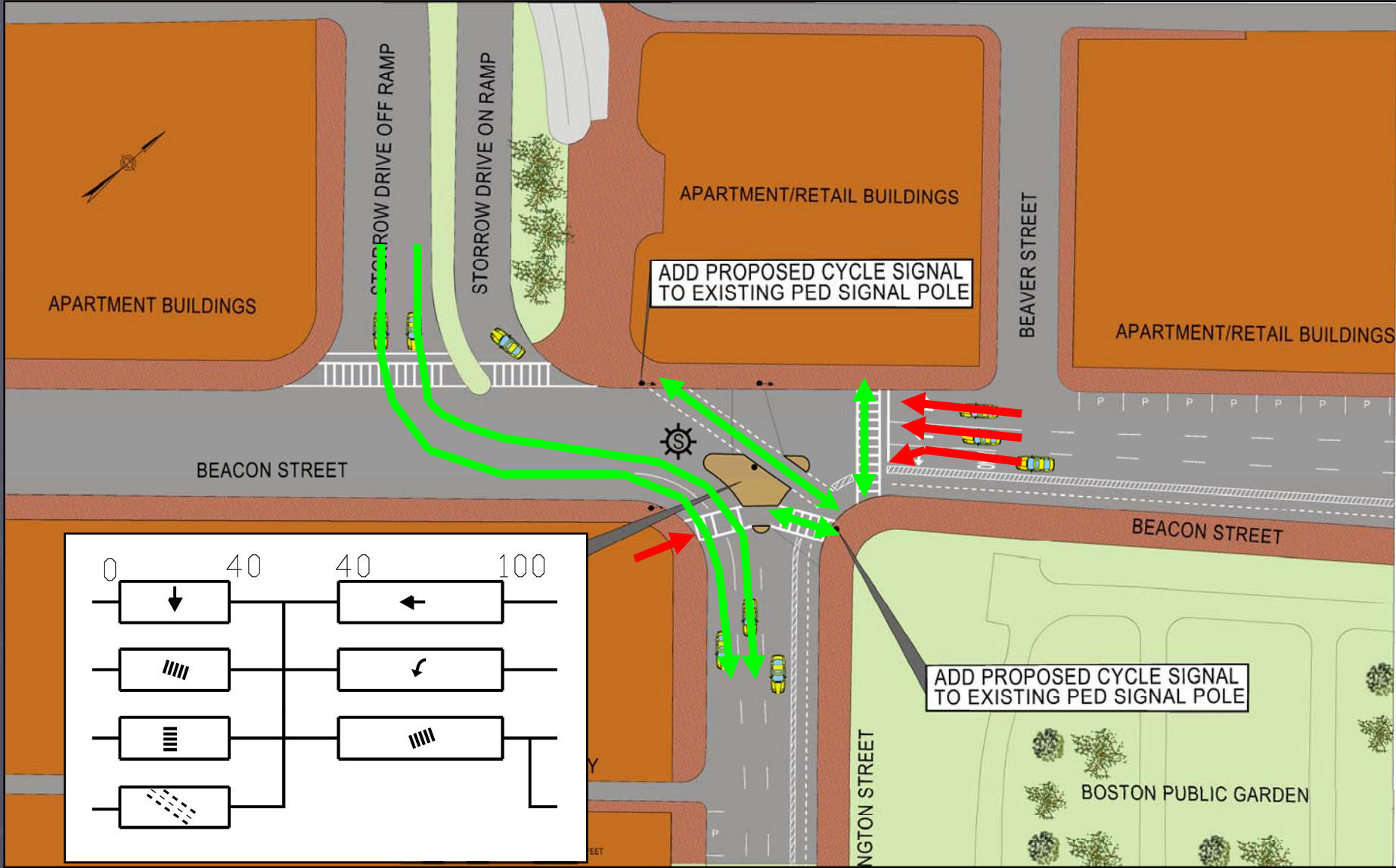
THE PUBLIC GARDEN



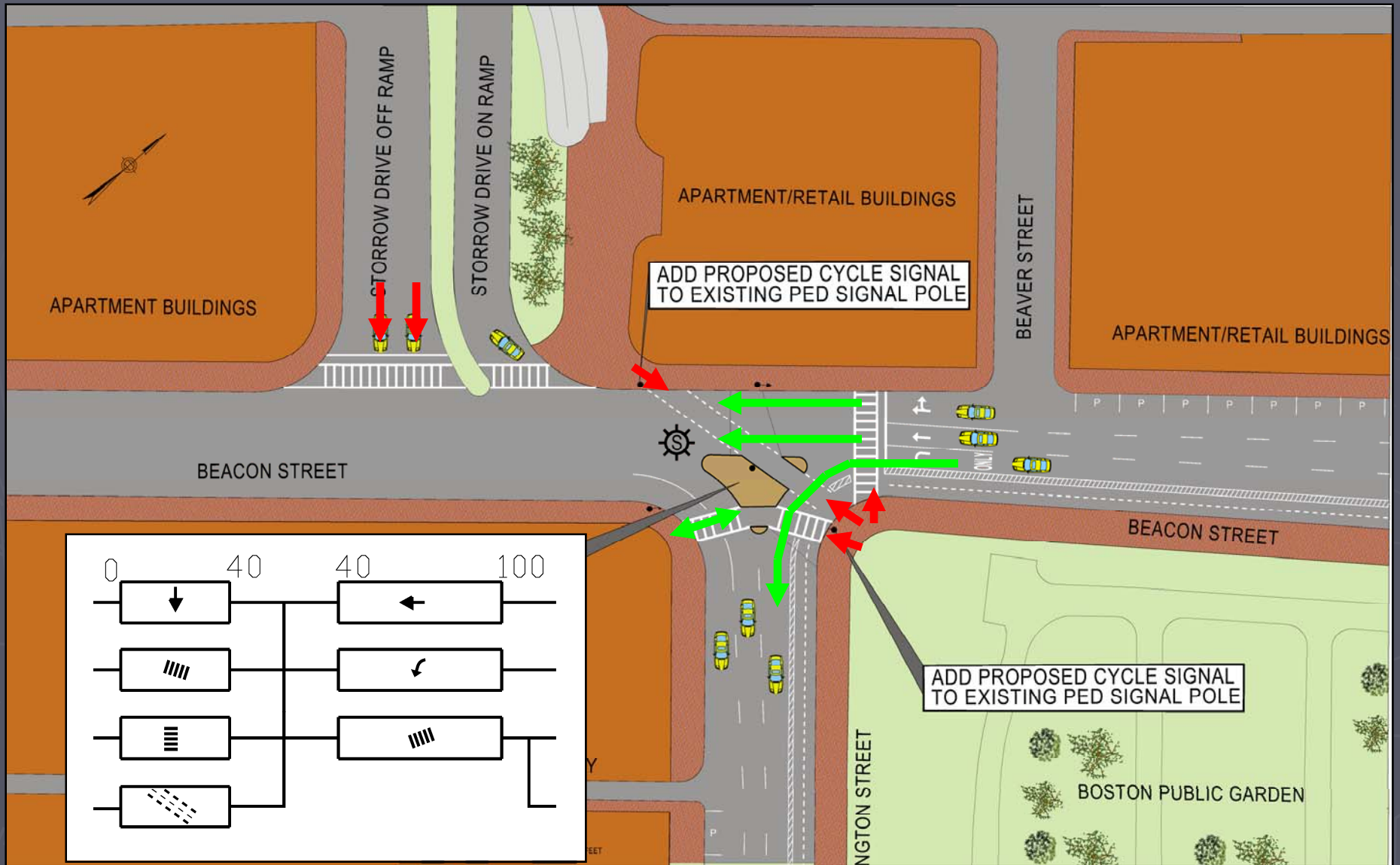
THE PUBLIC GARDEN



THE PUBLIC GARDEN



THE PUBLIC GARDEN



CONCLUSION

▶ DEMONSTRATE FEASIBILITY

- Separated Cycle Track
- Lane Removals

▶ PROMOTION

- Bicycle Transportation
- Safety

THE END



Questions?