### Transportation Advisory Committee Belmont Center Improvements



TAC Forum #2 – Review of Transportation Options Town of Belmont

November 4, 2010



#### **Participants**

Linda Nickens Belmont Traffic Advisory Committee
Glenn Clancy Belmont Town Engineer
Peter Briere Traffic Engineer, BSC Group
Marybeth Murphy Landscape Architect, BSC Group
Charles Kalauskas Planner, BSC Group



#### Purpose of Project

- 1. Analyze alternatives
- 2. Determine preferred alternative relative to:
  - Roadway
  - Sidewalk
  - Parking
  - Landscape
- 3. Initiate design & construction

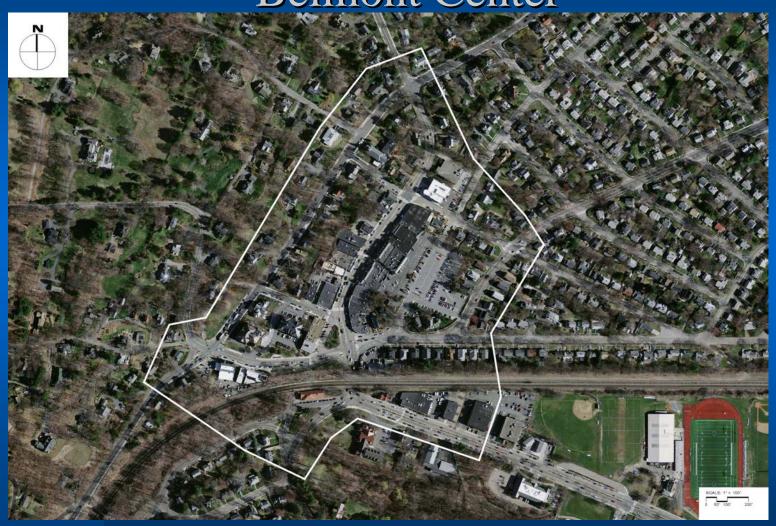


#### Project Schedule

#### BELMONT CENTER - PROJECT DEVELOPMENT PROJECT SCHEDULE (Revised 9/20/2010) YEAR 2011 MONTH AUG SEP OCT NOV DEC **FEB** MAR JAN 7 | 14 | 21 | 28 | 4 | 11 | 18 | 25 | 2 | 9 | 16 | 23 | 30 | 6 | 13 | 20 | 27 | 4 | 11 | 18 | 25 | 2 | 9 | 16 | 23 | 30 | 6 | 13 | 20 | 27 | 6 | 13 | 20 | 27 | **WEEK ENDING** Research Research Base Plan Preparation Base Plan Preparation 2 Data Collection & Analysis 3 Data Collection & Anal Conceptual Rdwy D & A Rdwy Rdwy. Rdwy. Conceptual Streetscape 5 LA LA AA **Parking Management** Pkg Pkg. 7.1 Kick Off Kick Off 7.2 Public Part, TAC #1 TAC #1 10/14 8 Alternatives TAC #2 7.3 TAC #2 11/04 7.5 2 Alternatives TAC #3 TAC #3 12/09 Preferred TAC #4 7.6 TAC #4 01/13 Meeting with Selectmen 7.7 Selectmen



### Study Area Context Belmont Center





#### Comments from First Meeting

- Improve Pedestrian Facilities
- Improve Public Transportation
- Identify Priorities
- Improve Bicycle Accommodations
- Identify Budget Constraints
- Explore Re-opening the Clark Street Bridge



#### **Process**

### Transportation Advisory Committee #2 (Thursday November 4, 2010)

- •Seven or Eight Traffic Patterns
- Pros and Cons of Each
- •Select Two Preferred Alternatives



#### Analysis Tools

### With the Traffic Patterns being reviewed, we will evaluate:

- Traffic Operations
- Parking Supply
- Bicycle Accommodations
- Pedestrian Access
- Streetscape Opportunities

#### Using the following Symbols:

- + Positive Impact
- o No Impact
- - Negative Impact



### Analysis Tools

#### Sample Chart

Leonard/Concord/Channing	
Traffic Operations	0
Parking	0
Bicycles	+
Pedestrians	-
Streetscape	0



#### Traffic Patterns to Review

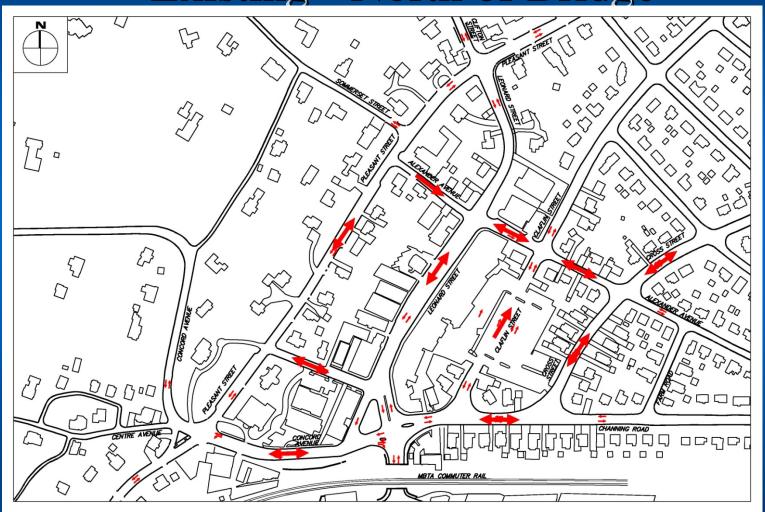
- Existing
  - North Side of Bridge
  - South Side of Bridge
- One Way Pairs
  - North of Bridge
    - Claflin / Leonard
    - Pleasant / Leonard
    - Cross / Leonard
  - South of Bridge
    - Common / Royal
    - Common / Royal with Restriction



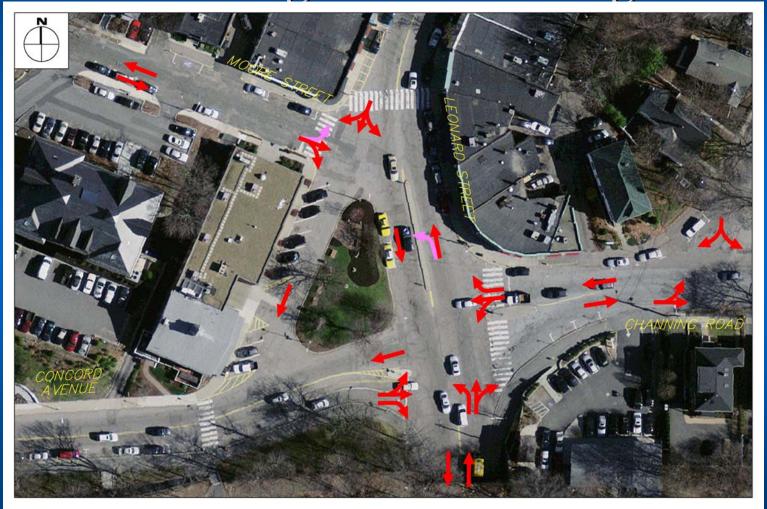
#### Traffic Patterns to Review (cont)

- Close Leonard Street
- Roundabouts
  - North of Bridge
  - South of Bridge
- Traffic Signals
  - North of Bridge
  - South of Bridge



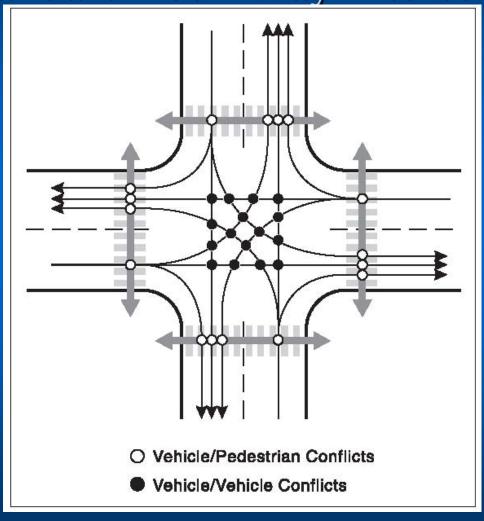




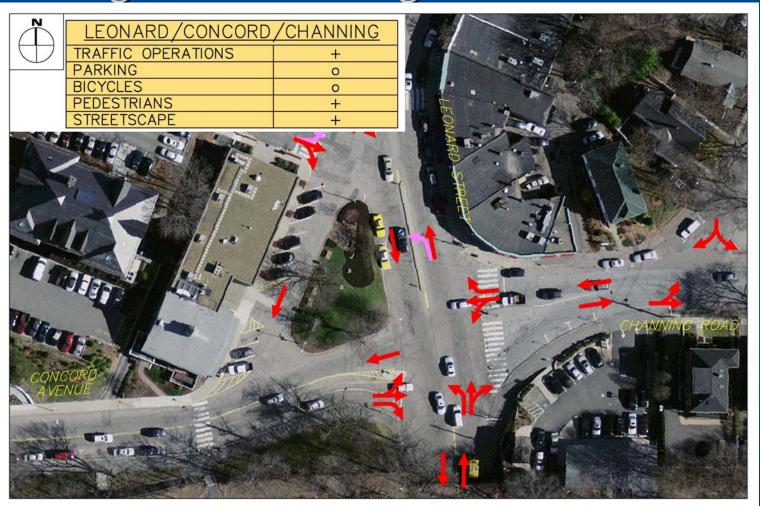




### Traffic Conflicts Standard Four-Way Intersection



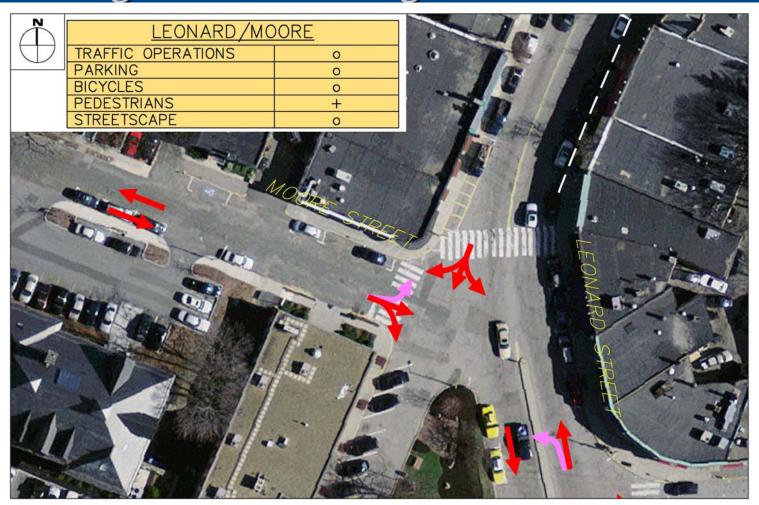




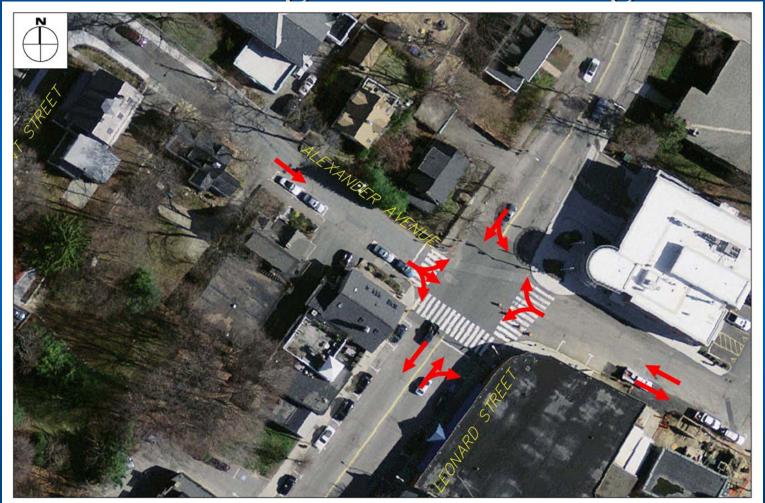




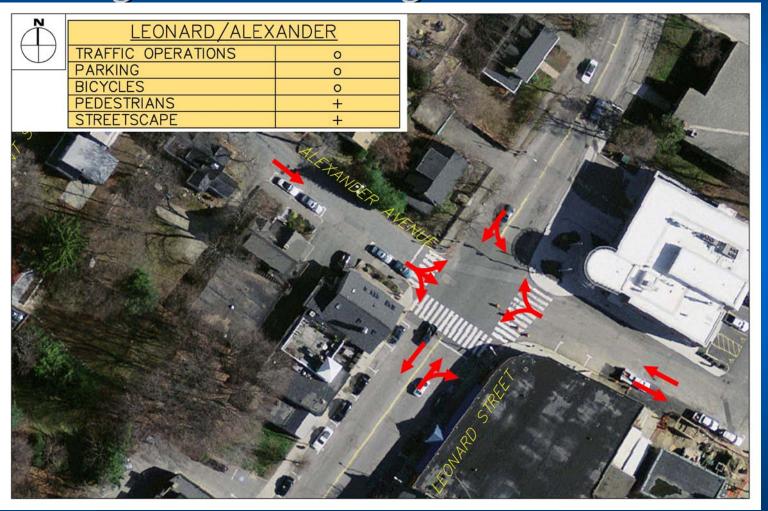
















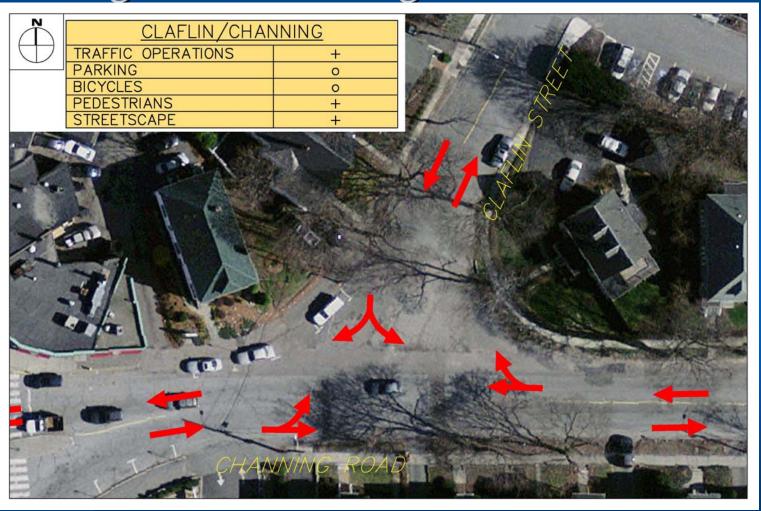




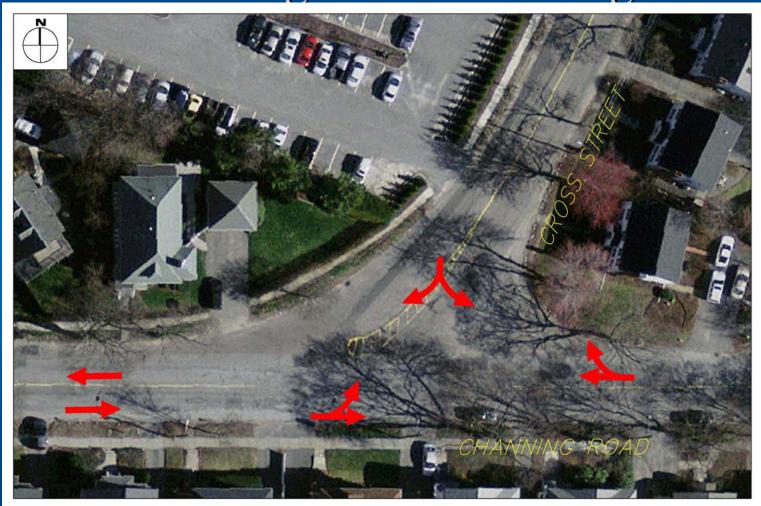












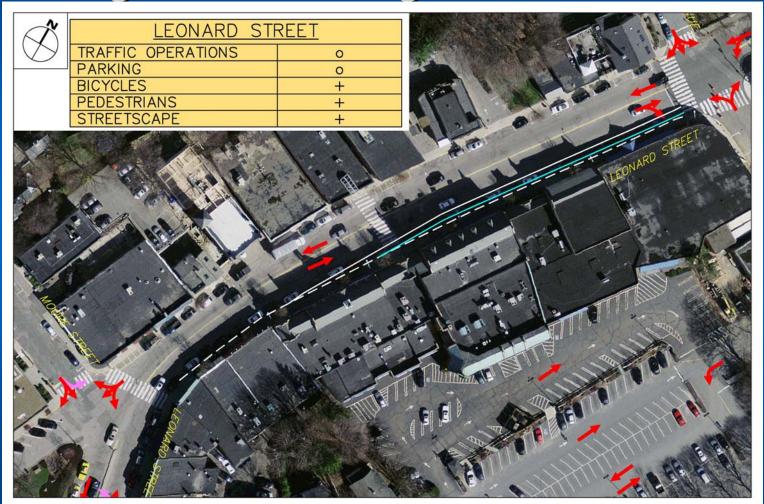




















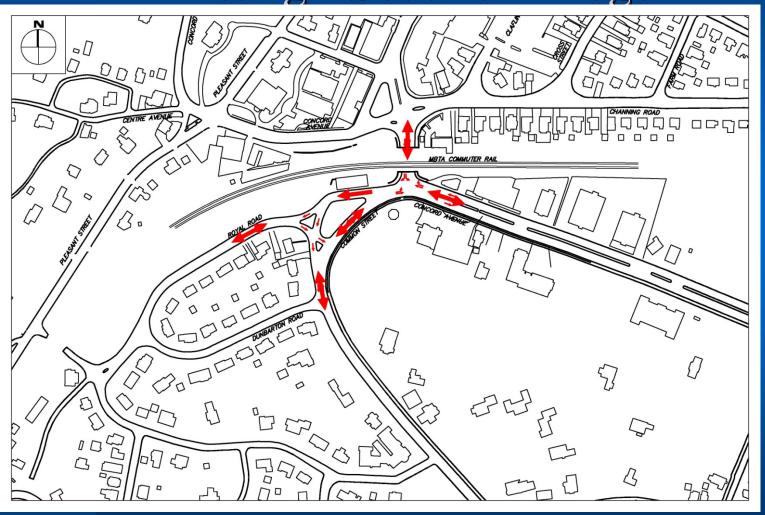


### Summary/Discussion

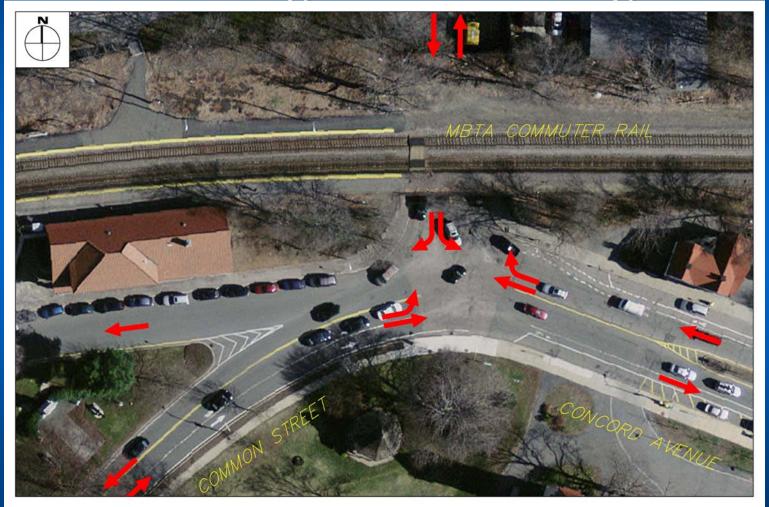




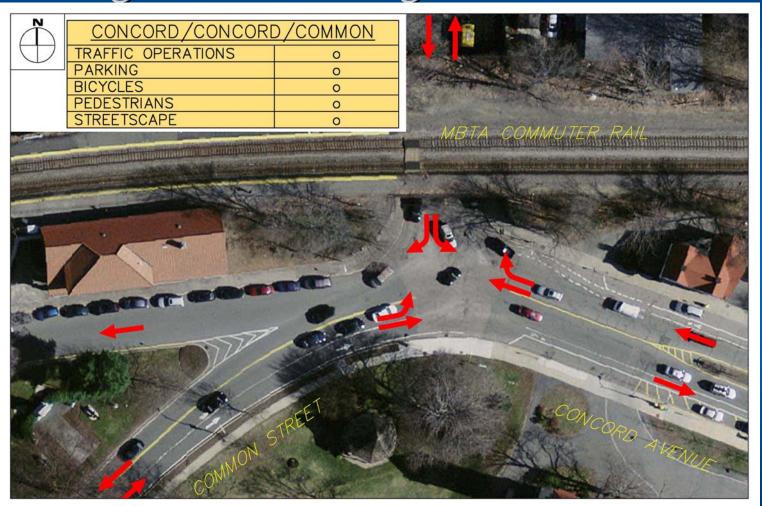








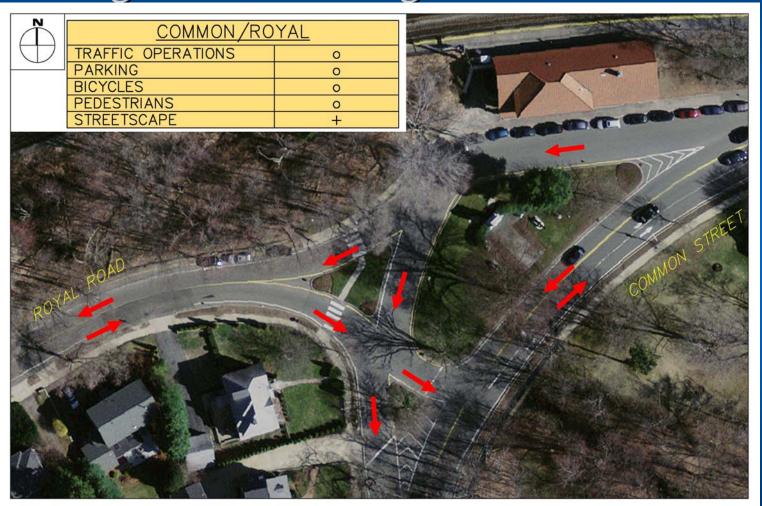




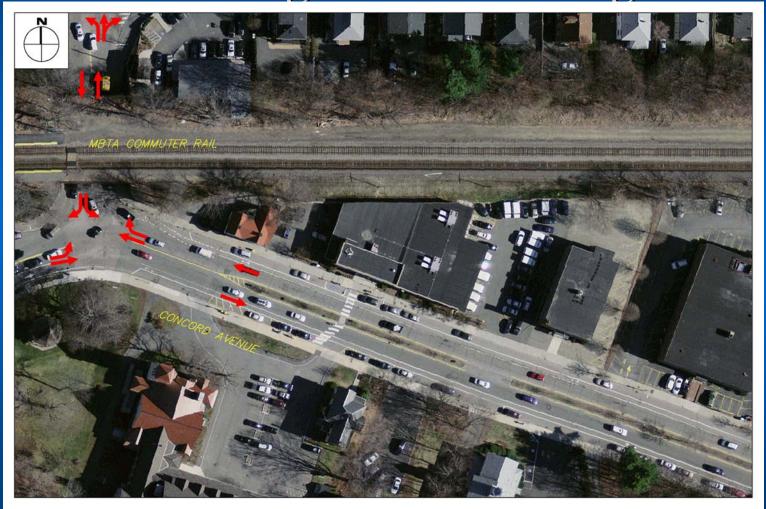














#### Alternative Traffic Patterns

Existing - South of Bridge with Modifications

CONCORD AV	CONCORD AVENUE		
TRAFFIC OPERATIONS	0		
PARKING	0		
BICYCLES	0		
PEDESTRIANS	0		
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# Alternative Traffic Patterns Existing





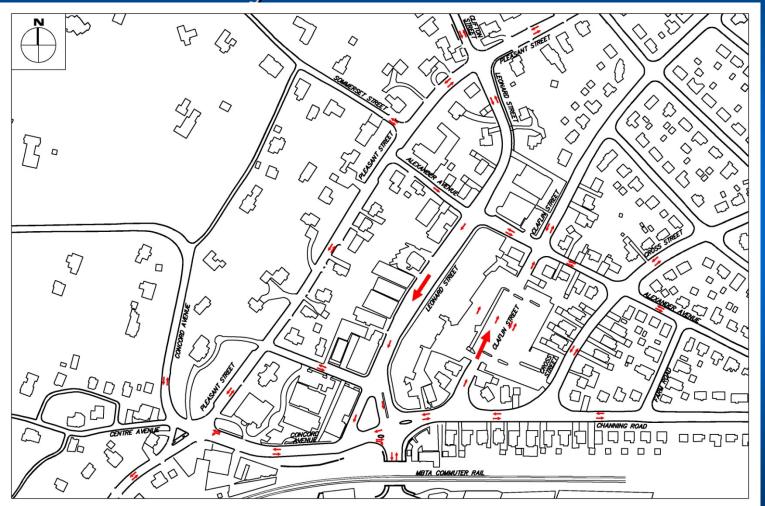
# Alternative Traffic Patterns Existing – South of Bridge

### Summary/Discussion

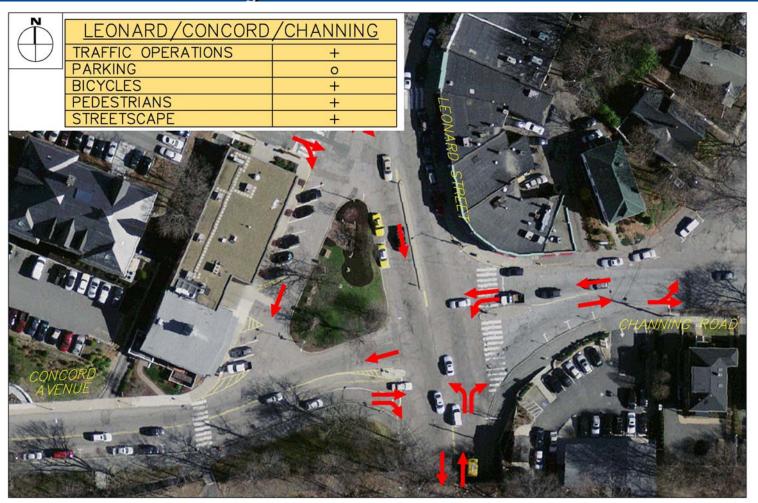




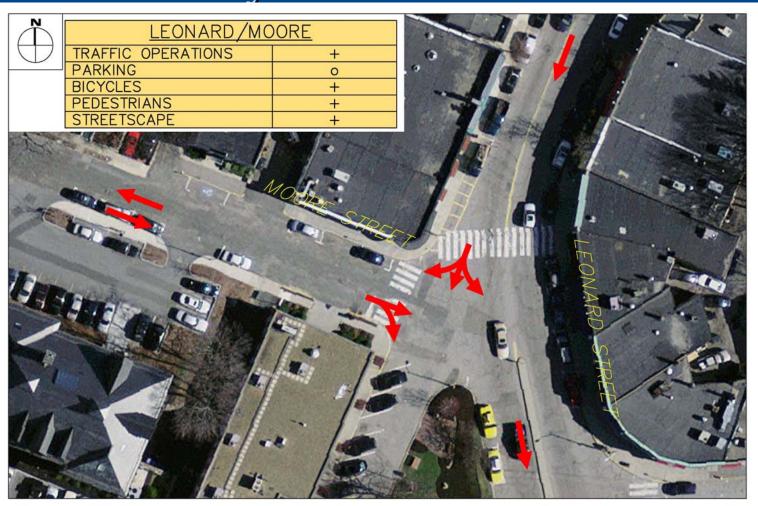




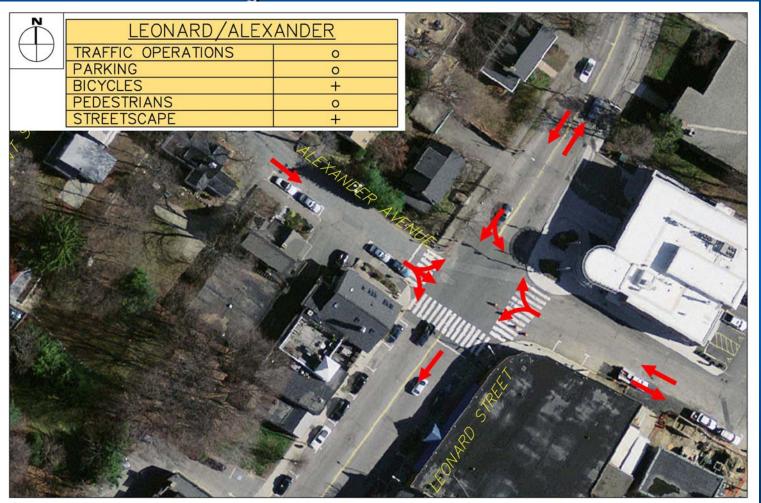




















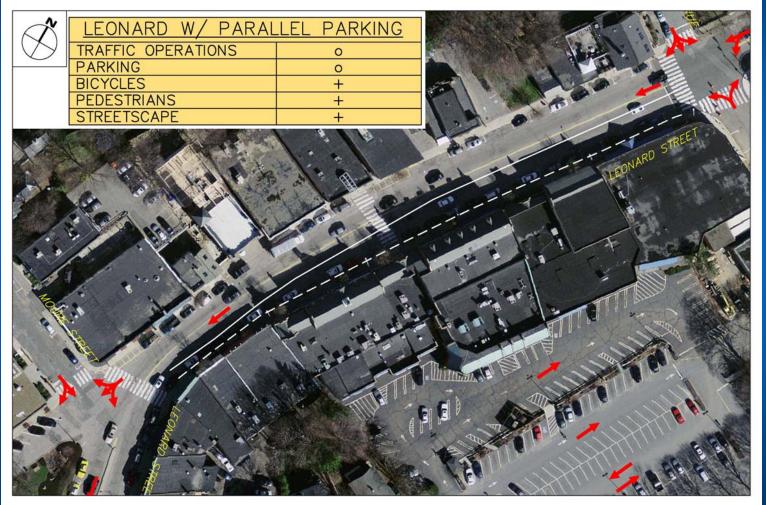
















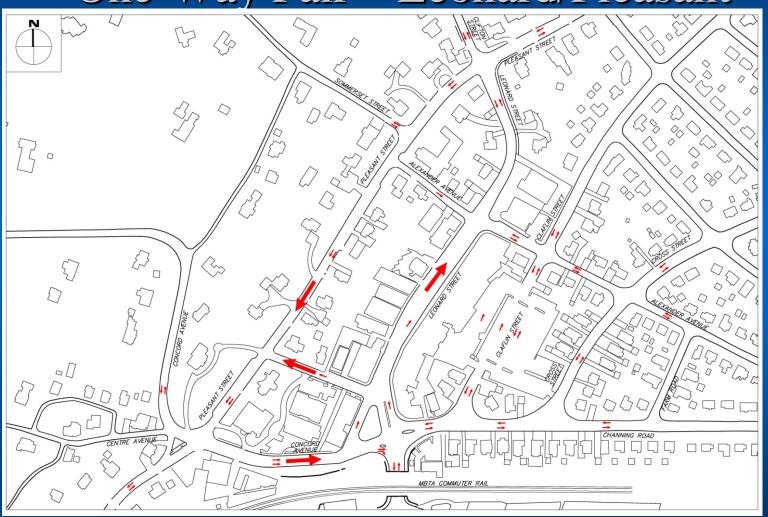


### Summary/Discussion









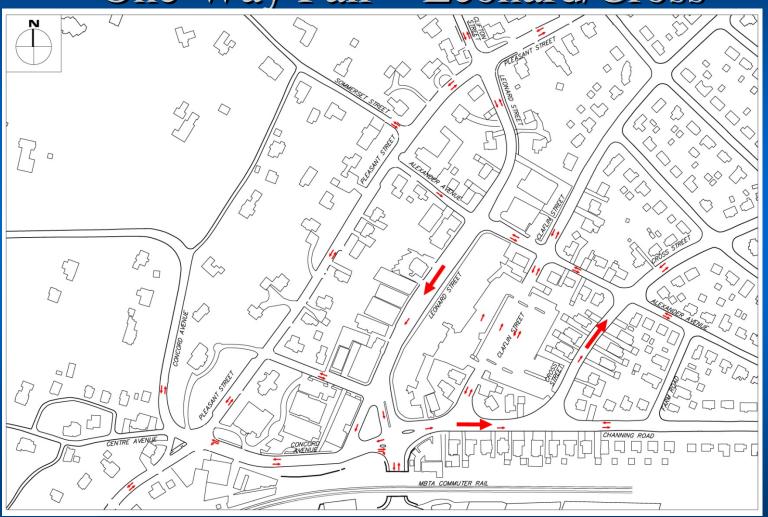


### Summary/Discussion









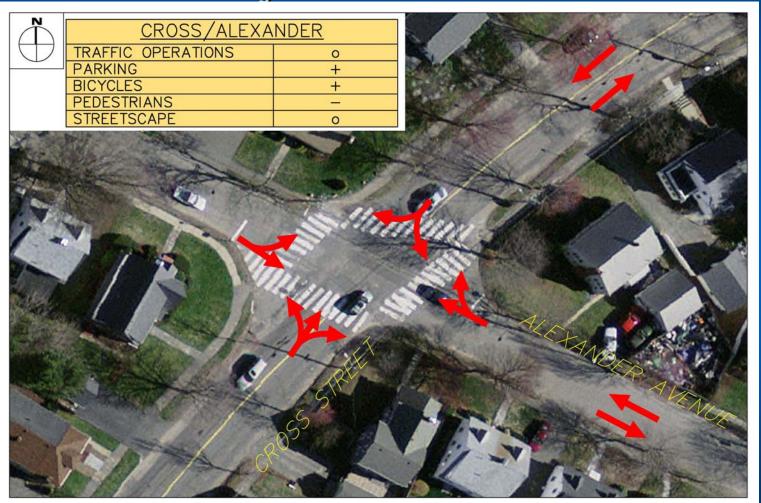




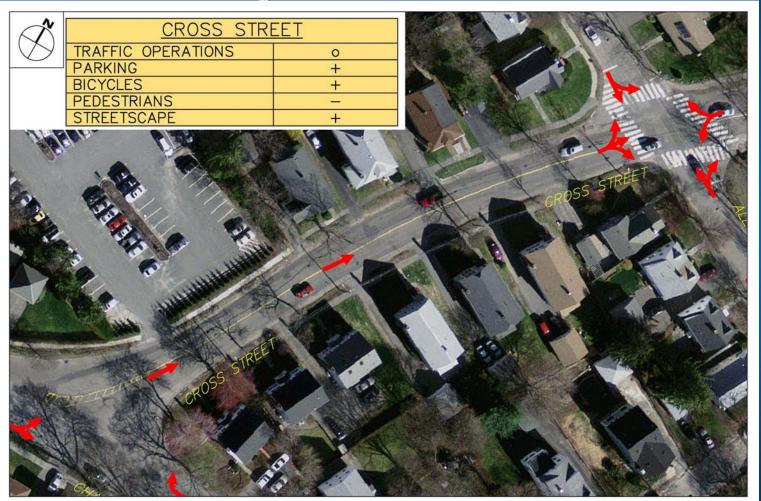




















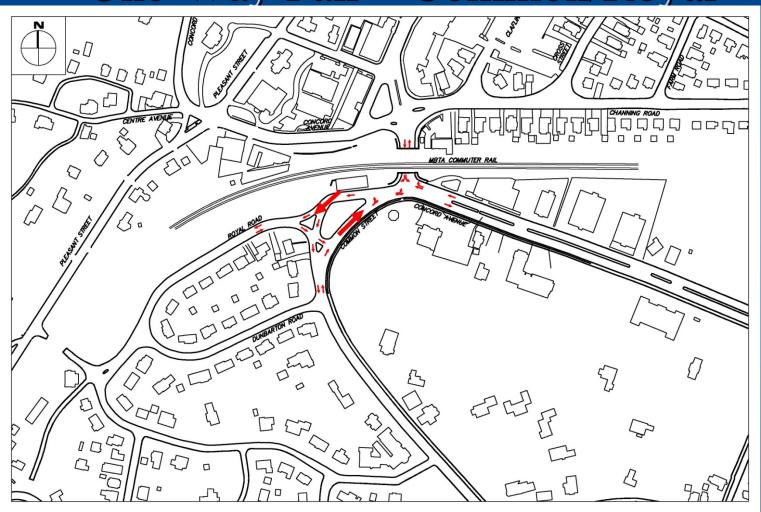


### Summary/Discussion

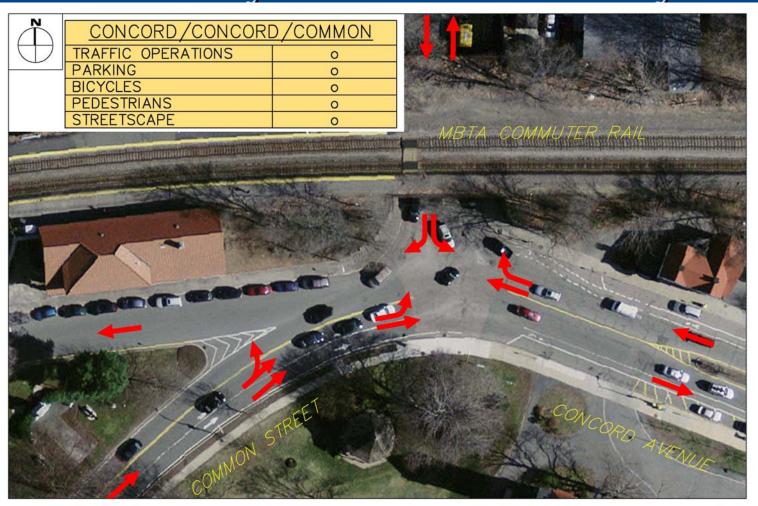




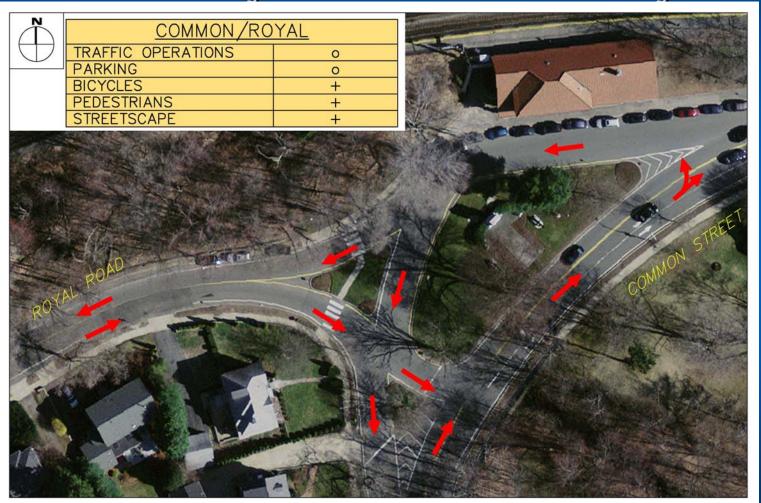












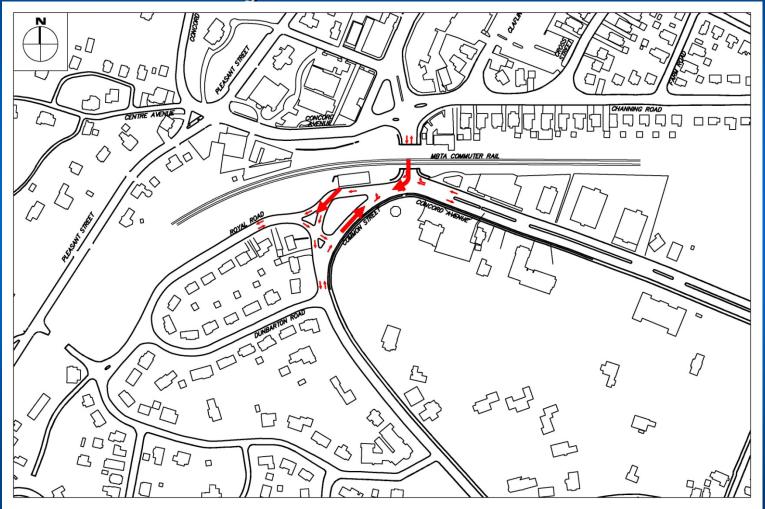


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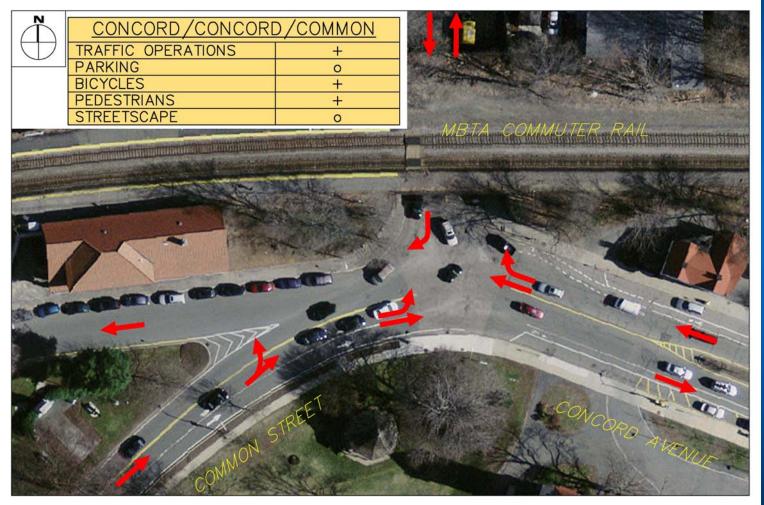




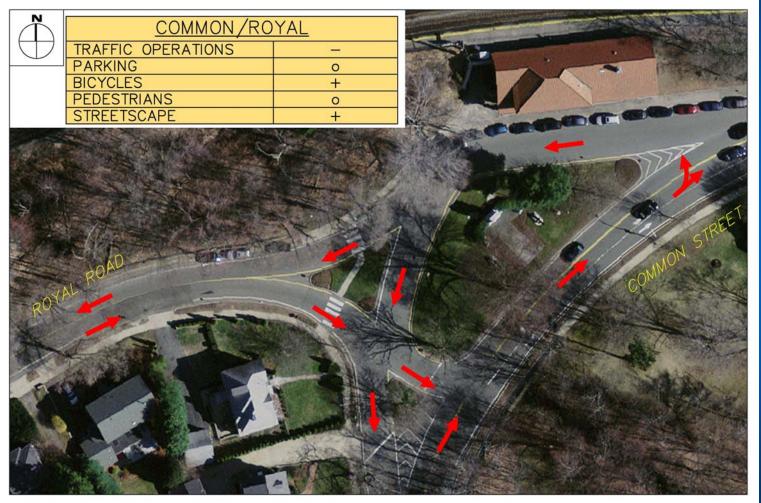














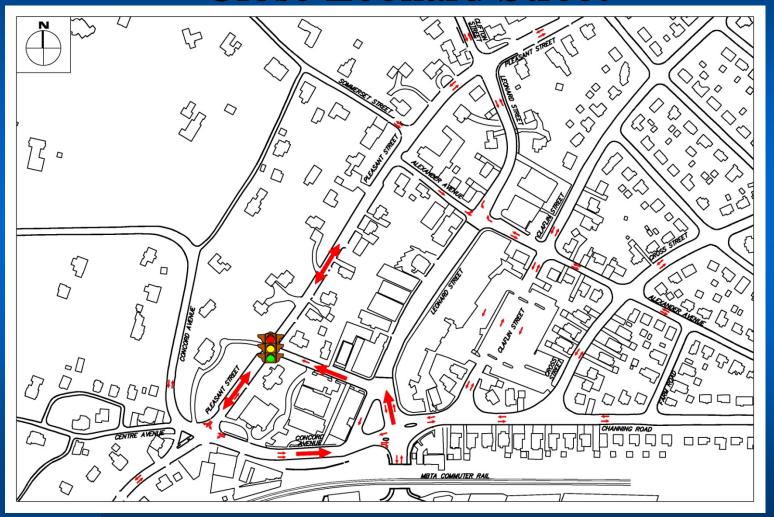
### Summary/Discussion







## Alternative Traffic Patterns Close Leonard Street





### Alternative Traffic Patterns Close Leonard Street

### Summary/Discussion

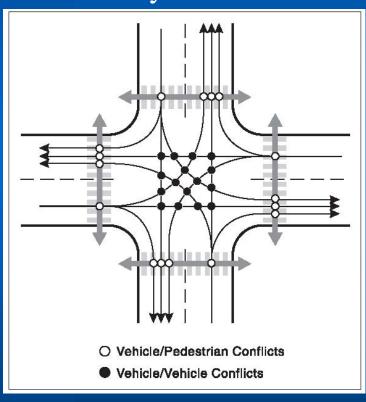




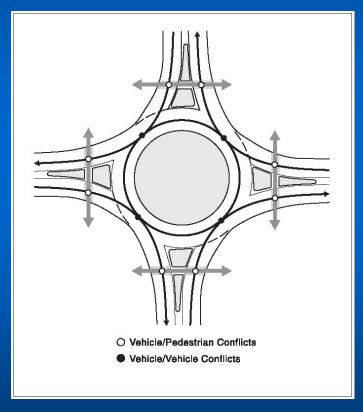


#### **Traffic Conflicts**

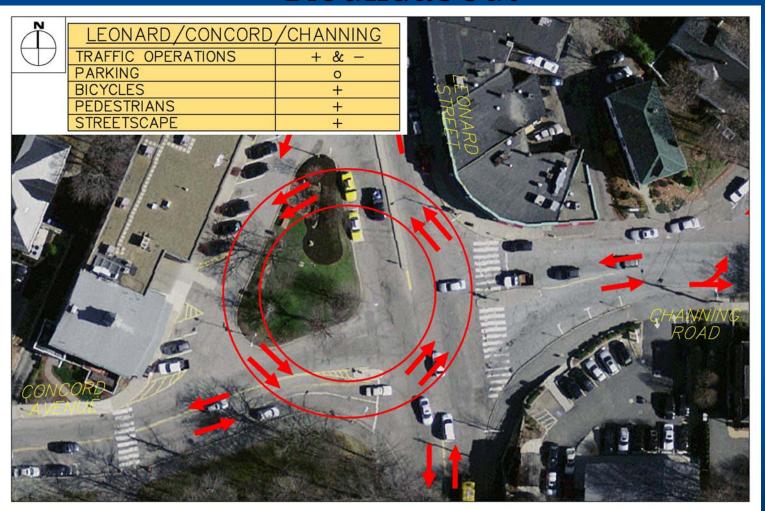
#### Four-Way Intersection



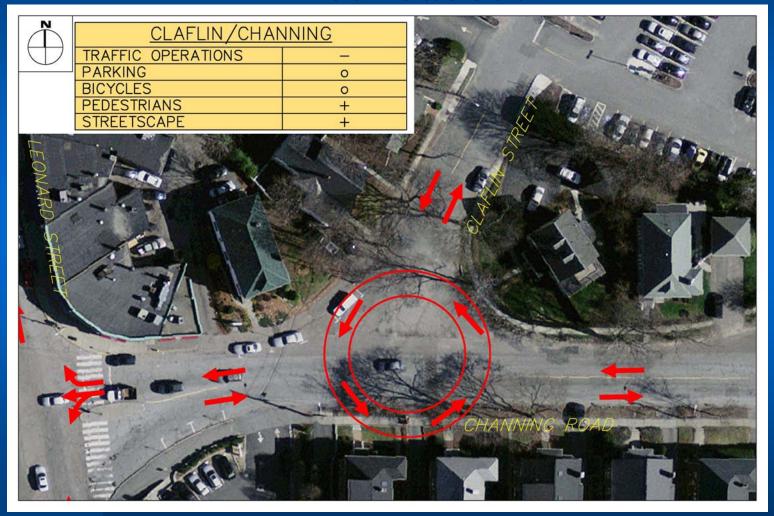
#### Roundabout







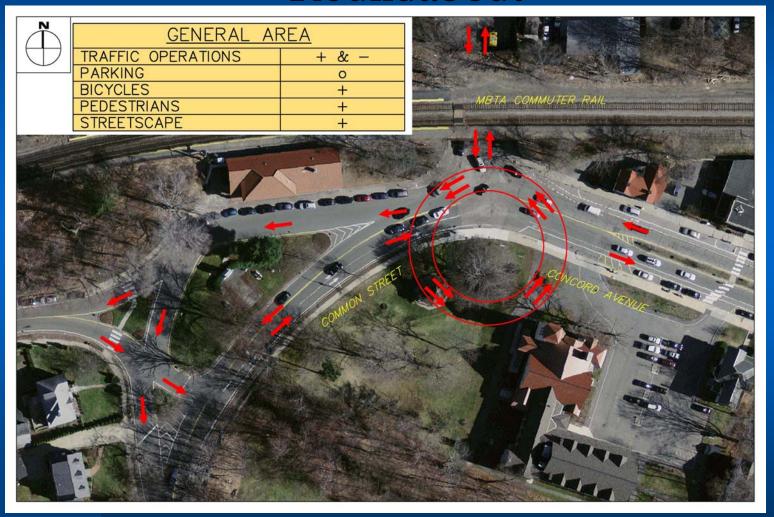




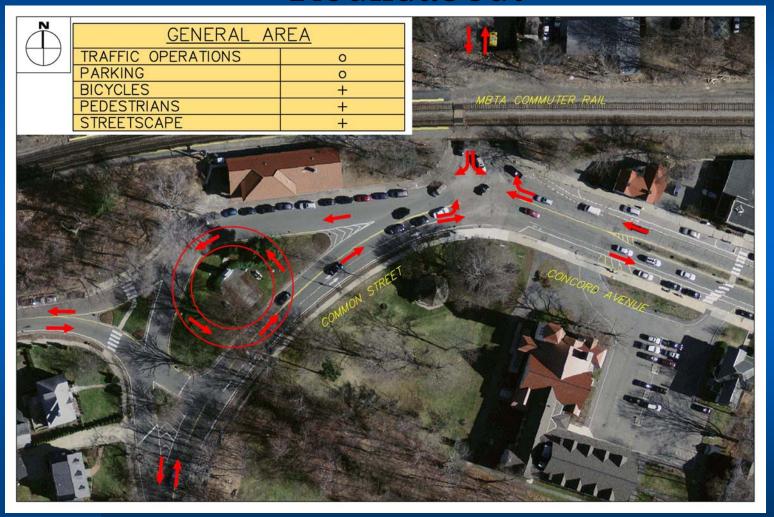






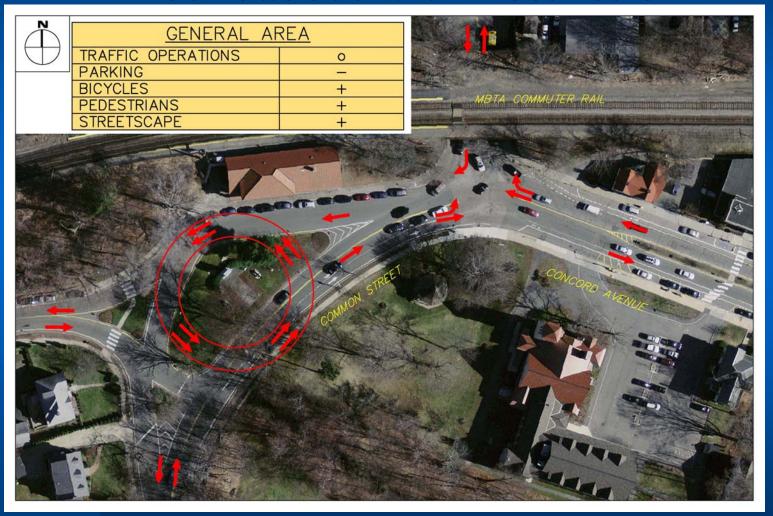








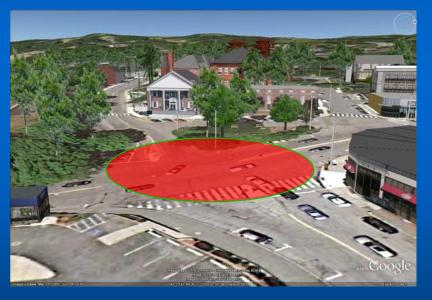
### Alternative Traffic Patterns Roundabout with Restriction





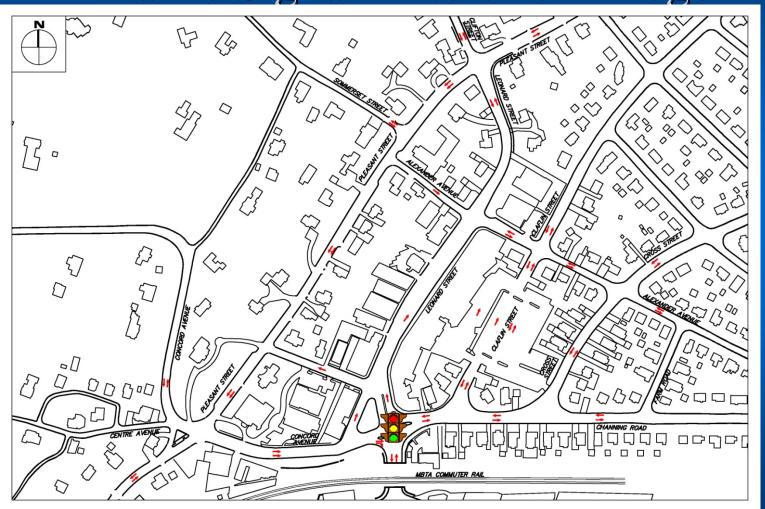
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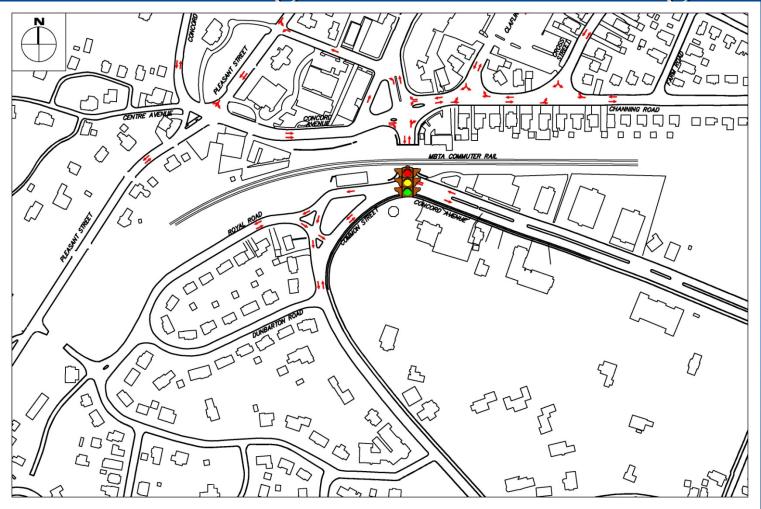


### Alternative Traffic Patterns Traffic Signal – North of Bridge





## Alternative Traffic Patterns Traffic Signal – South of Bridge





# Alternative Traffic Patterns Traffic Signals

### Summary/Discussion







#### Traffic Patterns to Review

- Existing
  - North Side of Bridge
  - South Side of Bridge
- One Way Pairs
  - North of Bridge
    - Claflin / Leonard
    - Pleasant / Leonard
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#### Traffic Patterns to Review (cont)

- Close Leonard Street
- Roundabouts
  - North of Bridge
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- Traffic Signals
  - North of Bridge
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