



BOSTON REGION METROPOLITAN PLANNING ORGANIZATION

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The Boston Region MPO is
composed of:

Massachusetts Department of
Transportation
Metropolitan Area Planning Council
Massachusetts Bay Transportation
Authority Advisory Board
Massachusetts Bay Transportation
Authority
Massachusetts Port Authority
Regional Transportation Advisory
Council
City of Boston
City of Beverly
City of Everett
City of Newton
City of Somerville
City of Woburn
Town of Arlington
Town of Bedford
Town of Braintree
Town of Framingham
Town of Lexington
Town of Medway
Town of Norwood
Federal Highway Administration
(nonvoting)
Federal Transit Administration
(nonvoting)

MEMORANDUM

DATE March 15, 2012
TO Boston Region Metropolitan Planning Organization
FROM Karl H. Quackenbush, CTPS Executive Director
RE Draft memoranda presenting results from the study, FFY 2011 Safety and Operations Analyses at Selected Boston Region MPO Intersections

ACTION REQUIRED

Review and approval

PROPOSED MOTION

That the Boston Region Metropolitan Planning Organization vote to approve the six technical memoranda, from the study FFY 2011 Safety and Operations Analyses at Selected Boston Region MPO Intersections, for Arlington, Framingham, Hudson, Malden, Milton, and Newton, in the form of the drafts dated February 22, 2012.

PROJECT IDENTIFICATION

Unified Planning Work Program Classification

Planning Studies

CTPS Project Number

13253

Client(s)

Boston Region Metropolitan Planning Organization

CTPS Project Supervisors

Principal: Efi Pagitsas

Manager: Chen-Yuan Wang

Funding

MPO 3C PL Contract #66104 and #69965

MPO §5303 Contract #67436 and #70172

BACKGROUND

This study was a recommendation of the MPO's Congestion Management Process (CMP). The study's purpose was to select intersections from throughout the region and develop recommendations for improving their operations and the safety of the drivers, bicyclists, and pedestrians who use them.

DESCRIPTION OF THE ATTACHED MEMORANDA

The six attached memoranda present analyses and recommendations for the eight intersections listed below (two of the memoranda include analysis for two intersections, each). The intersections were selected through a comprehensive procedure with extensive data screening and numerous interactions with cities and towns. This procedure included review of MassDOT crash data, of the status of Transportation Improvement Program projects, and of responses to the CMP intersection survey, and communications with cities and towns regarding their interest in project implementation.

City/Town	Street 1	Street 2	2006-08 EDPO*	Total Crashes	Fatal Crashes	Injury Crashes	Ped./Bike Crashes
Arlington	Massachusetts Avenue	Appleton Place/ Appleton Street	31	11	0	5	3
Framingham	Union Avenue	Mount Wayte Avenue	70	34	0	9	0
Hudson	Lincoln Street (Route 85)	Cox Street/ Packard Street	44	16	0	7	0
Malden	Main Street	Mountain Avenue	104	35	1	15	2
Milton	Neponset Valley Parkway	Bush Hill Road	51	23	0	7	0
	Neponset Valley Parkway	Milton Street	10	6	0	1	0
Newton	Crafts Street	Albemarle Road	54	26	0	7	1
	Crafts Street	North Street	17	9	0	2	1

* EPDO (Equivalent Property Damage Only) rating = 10 * Fatality Crashes + 5 * Personal Injury Crashes + 1 * Other Crashes

Typical subjects of the memoranda are:

- Intersection layout and traffic control
- Issues and concerns
- Crash data analysis
- Intersection capacity analysis
- Preliminary analysis of traffic signal warrants (*if applicable*)
- Analyses of improvement alternatives
- Improvement recommendations and discussion

Each memorandum includes appendices presenting methods and data applied in the study and detailed reports on intersection capacity analyses. In some cases, the appendices also include comments and appreciative responses about these studies from the municipality.

KQ/CW/cw