











Agenda

- I. GLX-PMT Update
- II. MBTA Bus Operations and Service Planning
- **III. GLX Maintenance of Traffic**
- IV. GLX Information Email & Phone Line
- V. Discussion



Update / Review

Public Outreach Plan (Local & Regional)

> Terry McCarthy, MBTA





Green Line Extension Public Meeting

(Wednesday, July 18 – Medford City Hall)









Quarterly First Responders Meeting

(Thursday, July 26 – GLXC Office)

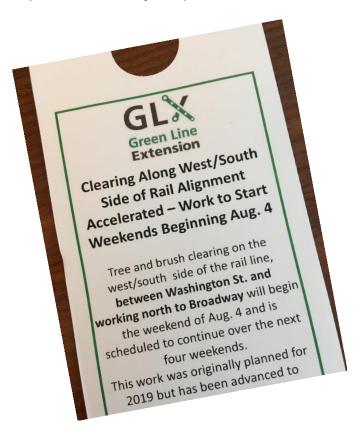


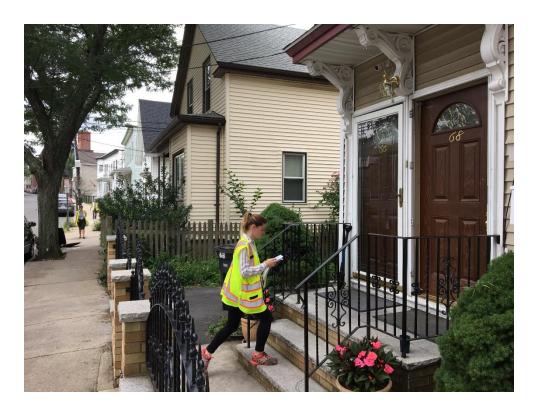






 Door to Door Outreach – Tree Clearing on West Side of Alignment (Week of July 30)

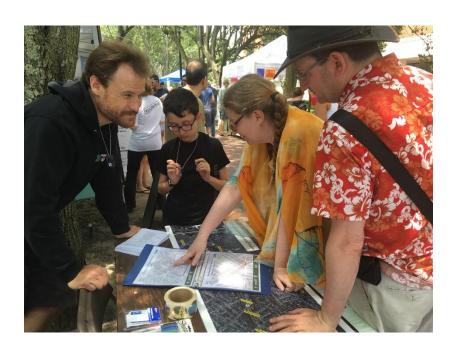








• ArtBeat Festival (Saturday, July 14 – Davis Square)







• **SomerStreets** (Sunday, August 5 – Somerville, Davis Square to Teale Square)







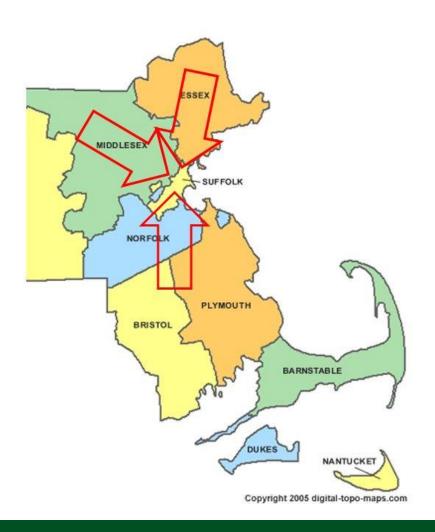




Regional Outreach

Regional Targets

- Cities and Towns
- Large employers
- Regional Transit Authorities
- News Outlets
- Mass Bus Association, etc.







Maintenance of Traffic



Broadway Bridge Closure – Traffic Analysis

Mike Ortler, GLXC





Broadway Bridge Closure







Pre-Construction Planning / Preparation

- Analyze Traffic Studies (Including Ped/Bike) to Develop Detour Route (Tetra Tech Complete)
- Maintenance of Traffic Coordination Meetings (Ongoing Weekly)
- Development of Vehicular Detour Route (Complete)
- Development of Pedestrian / Bike Detour Route (Complete)
- Signing Plan (90% Complete)
- Police Detail Coordination (Ongoing)
- Community Outreach / Advance Notification (Ongoing)



Project Status



Weekly Maintenance of Traffic Meetings

- Cambridge, Medford & Somerville Transportation engineers along with MBTA Bus Operations & the GLX team meet Wednesday mornings to review closures and travel options to reduce congestion and maintain service

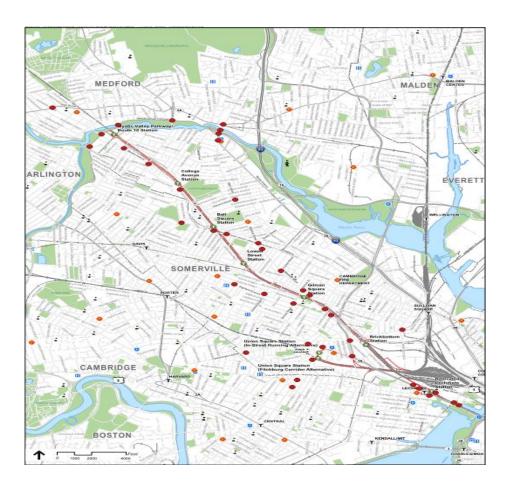






Traffic Studies – Environmental Impact Report

Study includes more than 60 intersections





Traffic Volumes

Table 4.6-1 Existing Daily Traffic Volumes on Study Area Roadways

Table 4.6-1 Existing Daily Traffic Volumes on Study Area Roadways (continued)

			Weekday N	lorning Peak	Hour	Weekday E	vening Pe	ak Hour				Weekday	/ Morning Pe	ak Hour	Weekda	y Evening I	Peak Hour
		Weekday	Volume	"k"	Directional	Volume	"k"	Directional			Weekday	Volume	"k"	Directional	Volume	"k"	Directional
Location	Direction	ADT1	(vph) ²	factor3	Flow	(vph)	factor	Flow	Location	Direction	ADT ¹	(vph) ²	factor ³	Flow	(vph)	factor	Flow
High Street	Eastbound	8,995	570	6.3%	54%	775	8.6%	57%	Winthrop Street	Eastbound	7,200	595	8.3%	64%	720	10.0%	72%
East of Canal Street	Westbound	8,375	480	5.7%	46%	580	6.9%	43%	East of Boston Avenue	Westbound	3,990	335	8.4%	36%	285	7.1%	28%
	Total	17,370	1,050	6.0%	100%	1,355	7.8%	100%		Total	11,190	930	8.3%	100%	1,005	9.0%	100%
Canal Street	Northbound	1,670	185	11.1%	50%	180	10.8%	60%	Curtis Street	Eastbound	4,465	350	7.8%	71%	345	7.7%	70%
South of Prescott Street	Southbound	1,455	185	12.7%	50%	120	8.2%	40%	West of Boston Avenue	Westbound	2,405	145	6.0%	29%	150	6.2%	30%
	Total	3,125	370	11.8%	100%	300	9.6%	100%		Total	6,870	495	7.2%	100%	495	7.2%	100%
Mystic Valley Parkway West of	Eastbound	13,435	955	7.1%	44%	965	7.2%	47%	Harvard Street	Eastbound	7,585	525	6.9%	46%	550	7.3%	48%
Boston Avenue	Westbound	15,480	1,210	7.8%	56%	1,075	6.9%	53%	East of Boston Avenue	Westbound	9,235	605	6.6%	54%	600	6.5%	52%
	Total	28,915	2,165	7.5%	100%	2,040	7.1%	100%		Total	16,820	1,130	6.7%	100%	1,150	6.8%	100%
Boston Avenue	Northbound	3,010	230	7.6%	36%	280	9.3%	54%	Broadway Between Boston	Eastbound	11,205	1,030	9.2%	57%	745	6.6%	45%
North of Holton Street	Southbound	3,200	415	13.0%	64%	235	7.3%	46%	Avenue & Winchester Street	Westbound	10,450	785	7.5%	43%	920	8.8%	55%
	Total	6,210	645	10.4%	100%	515	8.3%	100%		Total	21,655	1,815	8.4%	100%	1,665	7.7%	100%
Boston Avenue	Northbound	5,580	295	5.3%	34%	540	9.7%	62%	Broadway South of Powder House	Northbound	8,150	585	7.2%	42%	645	7.9%	51%
South of University Avenue	Southbound	5,425	575	10.6%	66%	325	6.0%	38%	Square	Southbound	8,590	805	9.4%	58%	610	7.1%	49%
	Total	11,005	870	7.9%	100%	865	7.9%	100%	. '	Total	16,740	1,390	8.3%	100%	1,255	7.5%	100%
Boston Avenue	Northbound	3,105	225	7.2%	39%	290	9.3%	55%	Willow Avenue Between Broadway	Northbound	2,730	165	6.0%	54%	240	8.8%	70%
South of Harvard Street	Southbound	3,210	350	10.9%	61%	240	7.5%	45%	& Kidder Avenue	Southbound	1,710	195	11.4%	46%	105	6.1%	30%
	Total	6,315	575	9.1%	100%	530	8.4%	100%		Total	4,440	<u>195</u> 360	8.1%	46% 100%	105 345	6.1% 7.8%	100%
College Avenue	Eastbound	3,795	230	6.1%	35%	355	9.4%	50%	Medford Street	Northbound	4,405	190	4.3%	27%	425	9.6%	63%
East of Boston Avenue	Westbound	4,930	435	8.8%	65%	360	7.3%	50%	South of School Street	Southbound	4,525		11.5%	73%	245	5.4%	37%
	Total	8,725	665	7.6%	100%	715	8.2%	100%		Total	8,930	<u>520</u> 710	8.0%	100%	670	7.5%	100%
College Avenue	Eastbound	4,030	215	5.3%	28%	370	9.2%	50%	Medford Street Between School	Eastbound	8,570	895	10.4%	77%	525	6.1%	55%
West of Boston Avenue	Westbound	5,400	550	10.2%	72%	375	6.9%	50%	Street & Central Street	Westbound	4,910			23%			
	Total	9,430	765	8.1%	100%	745	7.9%	100%		Total	13,480	<u>260</u> 1,155	5.3% 8.6%	23% 100%	435 960	8.9% 7.1%	45% 100%





Traffic Volumes

Location	Direction	Weekday	Weekd	ay Morning	Peak Hour	Weekday Ev		Evening Peak Hour	
		ADT ¹	Volume ADT ¹	"K" Factor	Directional Flow	Volume ADT ¹	"K" Factor	Directional Flow	
Boston Ave South of	Northbound	3,105	225	7.2%	39%	290	9.3%	55%	
Harvard St.	Southbound	3,210	350	10.9%	61%	240	7.5%	45%	
	Total	6.315	574	9.1%	100%	530	8.4%	100%	

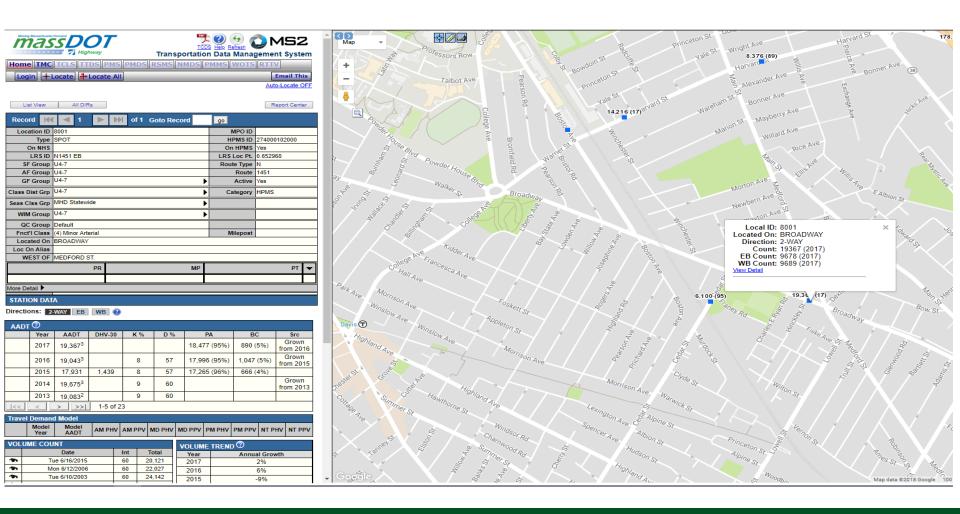
Traffic Terminology

- AADT Annual Average Daily Traffic
- ADT Average Daily Traffic





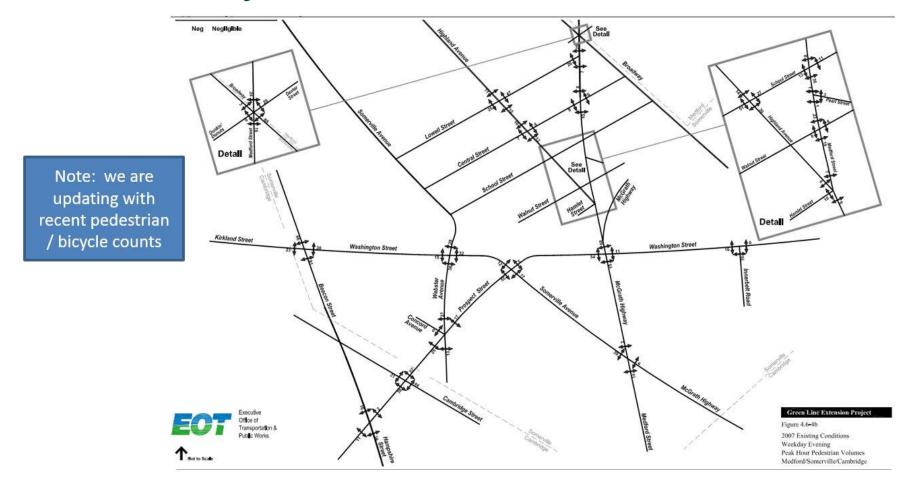
Traffic Volume - MassDOT Transportation Data Management System







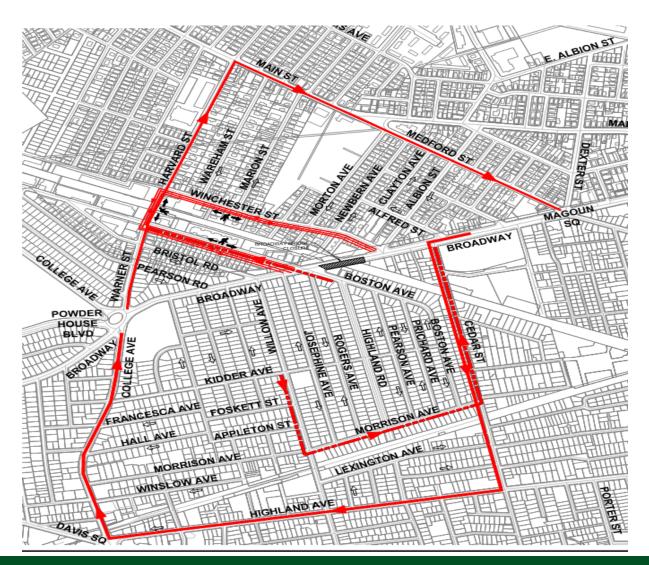
Pedestrian / Bicycle Volumes







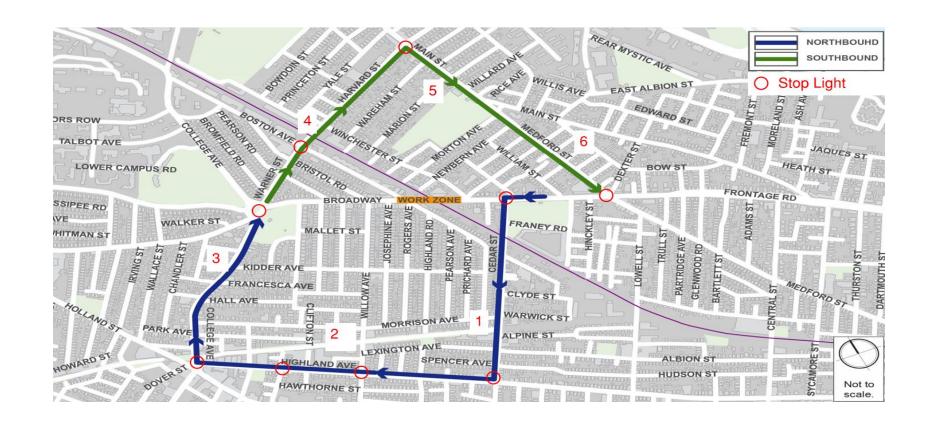
Traffic Management







Broadway Bridge Vehicular Traffic Detour







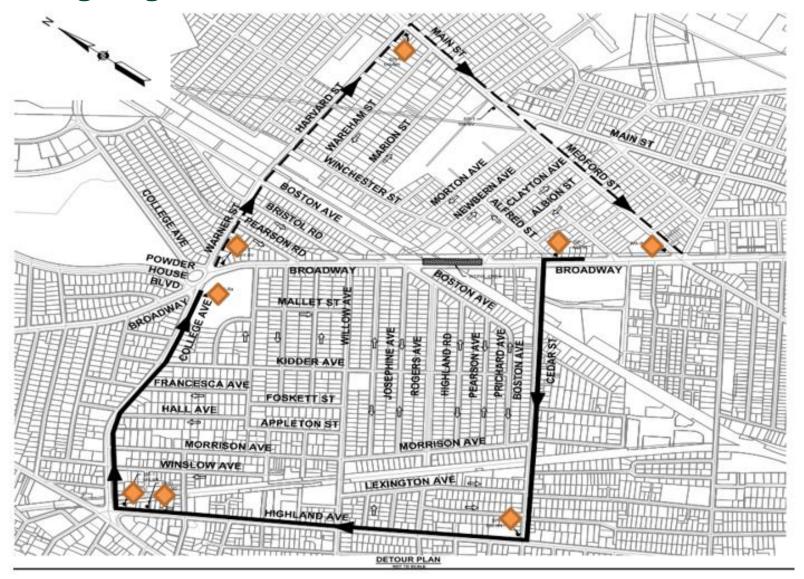
Broadway Bridge Pedestrian and Bike Detour







Detour Signing Plan







Detour Monitoring / Maintenance (During Construction)

- Daily Detour Inspections
- Monitoring Existing Striping GLXC to replace striping if required
- Maintain / Monitor Detour Signing (Daily)
- Ongoing Police Detail Coordination
- Ongoing Traffic Monitoring with City of Medford and Somerville Engineers
- Continue MOT Coordination Meetings Throughout Construction





Broadway Bridge Closure - Pedestrian Detours

> Terry McCarthy, MBTA





Broadway Closure - Ped/Bike Detour

Alternatives Suggested by Stakeholders

Proposal: Retrofit the existing bridge carrying utilities to accommodate ped/bike traffic

Limiting Factors:

- Cost
- > Schedule
- Weight Capacity
- Proximity to active demolition and construction on the Broadway Bridge would require additional safety measures to shield public from heavy equipment

Path Forward: Not a viable alternative to pursue







Broadway Closure - Ped/Bike Options

Alternatives Suggested by Stakeholders

Proposal: Utilize Cedar St. as the detour and create a cut-through to connect Cedar to Boston Ave.

Limiting Factors:

- > Cost
- > Schedule
- Public Safety
- Cuts through several residential lots/driveways and creates inconvenience for homeowners
- Places detour users in private space of residents
- Creates safety concerns with limited visibility & resident parking
- Time to negotiate temporary easement with property owners
- Additional construction needed to create path includes: fence removal, lane markings

Path Forward: Not a viable alternative to pursue









Broadway Closure - Ped/Bike Options

Alternatives Suggested by Stakeholders

Proposal: Create an at-grade crossing at Granville Ave

Limiting Factors:

- Cost and schedule impacts
- Safety. At grade crossings are being eliminated wherever possible
- Commuter train speeds up to 70 mph in the area
- Would require on-site flagger in addition to electronic warning devices
- Gates would be required for both sides of track when flagger off duty
- Would require procurement of a portable gate, warning signals and access system
- Height difference between crossing and Granville Ave is 7+ feet. Would require construction of a ramp to make it ADA compliant
- Ramp would limit parking access to properties on Granville
- Crossing point brings ped/bike traffic through construction site or private property

Path Forward: Not viable option to pursue







Project Status

MBTA Bus Operations and Service Planning

- Melissa Dullea
- Andrew Smith





MBTA Plans & Schedules Department Broadway Bridge Bus Diversion Alternatives for GLXC Routes 80, 89

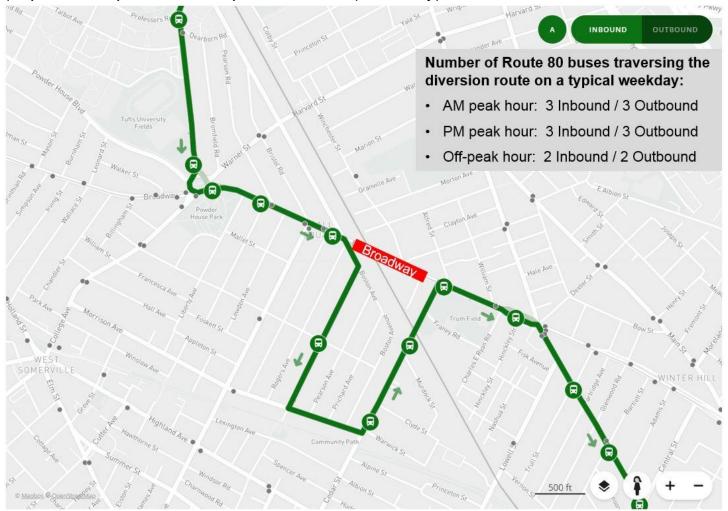
- Alternative B Diversions
- Route 80 IB (Arlington Center–Lechmere)....Diversion via Highland Rd., Morrison Ave., Cedar St.
- Route 80 OB (Lechmere–Arlington Center)...Diversion via Cedar St., Morrison Ave., Highland Rd.
- Route 89.0 IB (Clarendon Hill–Sullivan)......Diversion via Highland Rd., Morrison Ave., and Cedar St.
- Route 89.0 OB (Sullivan–Clarendon Hill).....Diversion via Cedar St., Morrison Ave., Highland Rd.
- Route 89.2 IB (Davis–Sullivan)......Diversion via Highland Rd., Morrison Ave., and Cedar St.
- Route 89.2 OB (Sullivan–Davis)......Diversion via Cedar St., Morrison Ave., Highland Rd.





Route 80 Inbound & Outbound, Alt B

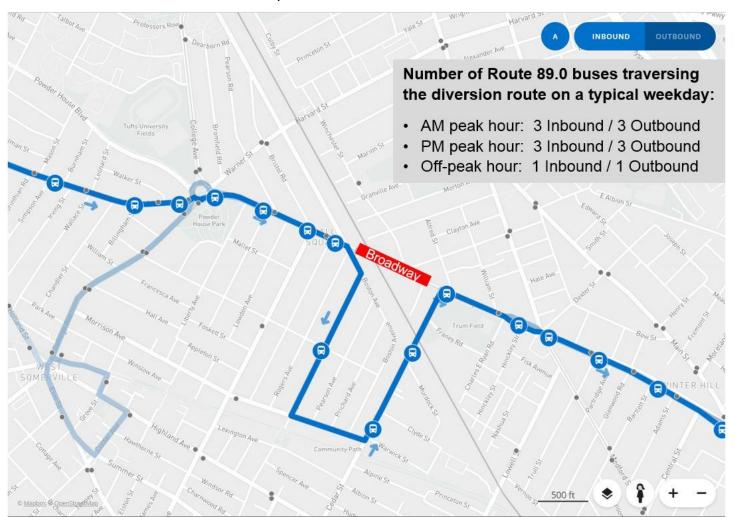
(Impacted stops - None: Impacted Riders (Weekday) None





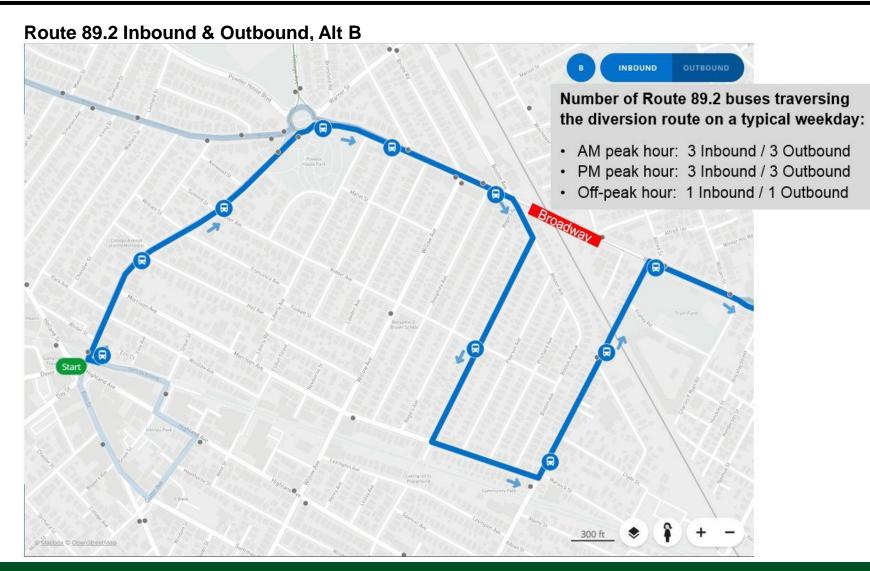


Route 89 Inbound & Outbound, Alt B













Alternative H Diversions

- Route 80 IB (Arlington Center–Lechmere).....Diversion via College Ave., George St., Main St., Medford St.
- Route 80 OB (Lechmere–Arlington Center)...Diversion via Medford St., Main St., George St., College Ave.
- Route 89.0 IB (Clarendon Hill-Sullivan).......Diversion via Holland St., Elm St., Cutter Ave., Highland Ave., Cedar St.
- Route 89.0 OB (Sullivan–Clarendon Hill)......Diversion via Cedar St., Highland Ave., Davis Busway, Holland St.
- Route 89.2 IB (Davis-Sullivan)......Diversion via Elm St., Cutter Ave., Highland Ave., Cedar St.
- Route 89.2 IB (Davis-Sullivan)......Diversion via Elm St., Cutter Ave., Highland Ave., Cedar St.
- Impacted stops: 11 inbound / 13 outbound
- Impacted riders (weekday): 635 ons, 730 offs
- Impacted riders by stop (weekday):





Alternative H Diversions

Impacted stops: 11 inbound / 13 outbound

Impacted riders (weekday): 635 ons, 730 offs

Impacted riders by stop (weekday):

Inbound

Stop ID	Stop Name	Route(s)	On	Off
2380	COLLEGE AVE @ PROFESSORS ROW	80	35	9
2381	COLLEGE AVE @ POWDER HOUSE SQ	80	3	20
2691	BROADWAY OPP PACKARD AVE	89.0	19	3
2692	BROADWAY @ SIMPSON AVE	89.0	8	0
2693	BROADWAY @ BILLINGHAM ST	89.0	2	1
2694	BROADWAY @ COLLEGE AVE	89.0	2	1
5019	COLLEGE AVE @ HALL AVE	89.2	4	1
5020	COLLEGE AVE @ KIDDER AVE	89.2	1	2
2695	BROADWAY OPP WARNER ST	80, 89.0, 89.2	197	89
2696	BROADWAY @ BAY STATE AVE	80, 89.0, 89.2	35	16
2697	BROADWAY @ JOSEPHINE AVE	80, 89.0, 89.2	169	64
	Totals		473	205





Alternative H Diversions

Impacted stops: 11 inbound / 13 outbound

• Impacted riders (weekday): 635 ons, 730 offs

Impacted riders by stop (weekday):

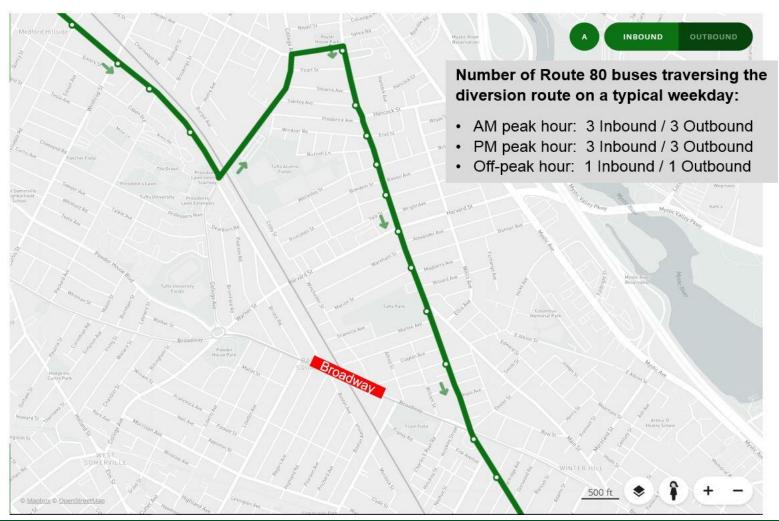
Outbound

Stop ID	Stop Name	Route(s)	On	Off
2736	BROADWAY @ BOSTON AVE	80, 89.0, 89.2	69	143
2737	BROADWAY @ PEARSON RD	80, 89.0, 89.2	18	25
2738	BROADWAY @ WARNER ST	80, 89.0, 89.2	35	262
2405	COLLEGE AVE @ WARNER ST	80	4	1
2406	COLLEGE AVE @ DEARBORN RD	80	7	19
2407	COLLEGE AVE @ BOSTON AVE	80	13	18
2740	BROADWAY @ WALKER ST	89.0	1	11
2741	BROADWAY @ LEONARD ST	89.0	0	11
2742	BROADWAY @ MASON ST	89.0	0	4
2743	BROADWAY @ PACKARD AVE	89.0	0	14
5012	COLLEGE AVE @ BROADWAY	89.2	14	10
5013	COLLEGE AVE @ SUMMIT ST	89.2	1	1
5014	COLLEGE AVE @ CHAPEL ST	89.2	0	6
	Totals		162	525





Route 80 Inbound & Outbound, Alt H







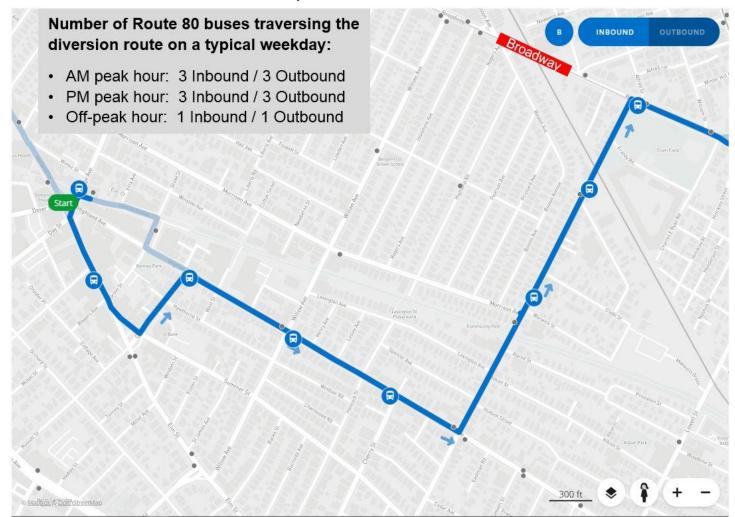
Route 89 Inbound & Outbound, Alt H







Route 89.2 Inbound & Outbound, Alt H







Project Status



Review of info@glxinfo.com & 855-GLX-INFO Hot Line

Megan Jarrett, GLX-C





Process:

- Initial Call/Email back within 24 hours. On average we follow up within 12 hours
- Enter Inquiry with Date,
 Subject, Open/Closed
 Status, Etc.
- Tailor communication based on individual issues.
 Some require face-to-face meetings whereas others can be resolved over the phone or through email



	7/26/2018	9:57 AM	Email	General Public	Inquiry	Other
94						
	7/26/2018	3:31 PM	Email	General Public	Inquiry	Schedule
95						
	7/26/2018	9:49 PM	Email	General Public	Comment	Detour

necessary for the Green Open cludes most of the trees been many trees that week, and having this t and running could be elf will actually reduce down, and will greatly vidual cars off the road. to take so that people ave taken noise and running tests to I like me to look up ovide your address and I about the detours. The Closed s with elected officials to ed to the plans are er database so that it will e is no hotline





Results:

- We have had a total of 104 inquiries, 72 which have been closed out
- In July, we had 45 inquiries total, 23 of those are closed out
- Some issues may remain ongoing through the duration of the project such as design requests

Count of Type		Month	Status		
		3	4		5
Туре	Subject	Closed	Closed	Open	Closed
Comment	Closures				
	Design				
	Detour				
	Dust				1
	Noise				1
	Other				2
	Pest				
	Trees				2
Comment Tota	al				6
Complaint	Dust				1
	Noise		2		
	Other				
	Pest	1			
	Trees				1
Complaint Tot	al	1	2		2
Inquiry	Closures				1 2
	Design	1	3		2
	Other	2	1		4
	Pest		1		
	Schedule		2		3
	Trees		1	2	4
	Media Request				
	General Information				1
Inquiry Total		3	8	2	15
Grand Total		4	10	2	23

5	6		7		8	
Open	Closed	Open	Closed	Open	Closed	Open
		1	1			•
1						
			7	3		
1						
	2		2	1		
			1			
	1	1				
2	3	2	11	4		
	1			1		
	1		2			1
	200		10.5			-
3		1	1	1		
3	2	1	3	2		1
1	2					
				1		
2	1	1	6	4		1
			2			
1	1 2		1			
	2			1	1	1
1						
5	6	1	9	6	1	2
10	11	4	23	12	1	3

I was out on School Street this morning (Saturday) working on some temporary lighting on the ped bridge and stopped by a little after 9 a.m. I didn't want to knock too loud just in case someone was asles working with our tree clearing subcontractor and we just can't access that tree with the equipment we have available and with restrictions associated with active commuter rail. The Positive Train Control line will get to this portion of the rail alignment (2019). In some cases I'd get a ladder and do the work myself. Considering the steep drop off to the base of the tree, from a fall protection standpoint I'd be kicked off the pet tree.

I'm sorry but I just don't know if we'll be able to do anything with that tree until clearing on the west side of the rail line is fully underway in 2019.

From
Sent: Thursday, June 28, 2018 9:20 AIM
To: Jeff Wagner leff.wagner@glxconstruct.com
Subject: Re: tree
hey jeff,

I'm around today at least this morning so let me know if you do stop by...



On Jun 27, 2018, at 6:38 AM, Jeff Wagner < Jeff Wagner@glxconstruct.com > wrote:



I caught up with the project engineer this morning and Northern will be in your area on Thursday. I'll swing out there as well. If something changes because of the weather etc. I'll let you know.





GLX Community Working Group

Discussion



