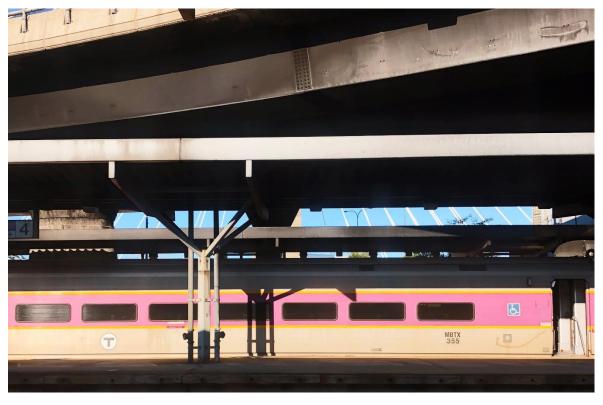


# **Service Planning**

The following graphics show the line-level service concepts developed for each of the six alternatives developed as part of the systemwide alternatives analysis.

The graphics show the peak versus off-peak hour service, as well as highlighting the stopping patterns, overall travel times, and frequency of the proposed service on each line.



## **Alternative 1**

## Newburyport/Rockport Line

### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Rockport Local	Newburyport Local	TOTAL PEAK	
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS	
Rockport	9 9		2	
Gloucester	+ +		2	
West Gloucester	+ +		2	
Manchester	+ +		2	
Beverly Farms	+ +		2	
Prides Crossing	+ +		2	
Montserrat	+ +		2	
Newburyport		9 9	2	
Rowley		4 4	2	
Ipswich		<b>† †</b>	2	
Hamilton/Wenham		4 4	2	
North Beverly		<b>4 4</b>	2	
Beverly	+ +	• •	4	
Salem	+ +	<b>† †</b>	4	
Swampscott	+ +	4 4	4	
Lynn	+ +	• •	4	
River Works	+ +	<b>+</b> +	4	
Chelsea	+ +	• •	4	
North Station	4 4	4 4	4	
Total Travel Time	83'	72'		

#### OFF-PEAK HOUR (REPEATING)

	TYPE OF SERVICE	Rockport Local	Newburyport Local	TOTAL OFF-PEAK	
	FREQUENCY (Min.)	REQUENCY (Min.) Every 60 Min.		HOUR TRAINS	
1	Rockport	•		1	
	Gloucester	•		1	
	West Gloucester	•		1	
	Manchester	•		1	
	Beverly Farms	•		1	
	Prides Crossing	•		1	
	Montserrat	•		1	
	Newburyport		•	1	
	Rowley		•	1	
	lpswich		•	1	
	Hamilton/Wenham		•	1	
	North Beverly		•	1	
	Beverly	•	•	2	
	Salem	•	•	2	
	Swampscott	•	•	2	
	Lynn	•	•	2	
	River Works	•	•	2	
	Chelsea	•	•	2	
	North Station	•	•	2	
	Total Travel Time	83'	72'		



### Haverhill Line

### PEAK HOUR (REPEATING)

North Station			4
Wyoming Hill Malden Center	II		2
	-I $I$		
Melrose Cedar Park	II		2
Melrose Highlands	II	via Lowell Lifte	2
Greenwood		Via Lowell Line	2
Wakefield			2
Reading			2
North Wilmington	• •		2
Ballardvale	9 9	• •	4
Andover		• •	2
Lawrence		• •	2
Bradford		• •	2
Haverhill		• •	2
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS
TYPE OF SERVICE	Local	Zonal Express Interline	TOTAL PEAK

#### OFF-PEAK HOUR (REPEATING)

BI-DIRECTIONAL SERVICE

OTT TEXTITION	TIT-FLAK HOOK (KEFLATING)					
TYPE OF SERVICE	Local	Zonal Express Interline	TOTAL OFF-PEAK			
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	HOUR TRAINS			
Haverhill		•	1			
Bradford		•	1			
Lawrence		•	1			
Andover		•	1			
Ballardvale	•	•	2			
North Wilmington	•		1			
Reading	•		1			
Wakefield	•		1			
Greenwood	•	Via Lowell Line	1			
Melrose Highlands	•		1			
Melrose Cedar Park	•		1			
Wyoming Hill	•		1			
Malden Center	•		1			
North Station		•	2			
Total Travel Time	51'	59'				

Station Stop

Lawrence Existing Station

Hourly Service
Hourly Interline Service

### **Lowell Line**

#### PEAK HOUR (REPEATING)

TEAR HOOK (REI	2,		
TYPE OF SERVICE	Local	Haverhill Interline	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS
Haverhill		• •	2
Lowell	9 9		2
North Billerica	<b>+</b> +	Via Haverhill Line	2
Wilmington	• •		2
Anderson/Woburn	<b>+</b> +	<b>† †</b>	4
Mishawum			0
Winchester Center	<b>+</b> +		2
Wedgemere	• •		2
West Medford	<b>+</b> +		2
North Station		4 4	4
Total Travel Time	48'	59'	

OFF-PEAK HOUR	OFF-PEAK HOUR (REPEATING)					
TYPE OF SERVICE	Local	Haverhill Interline	TOTAL OFF-PEAK			
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	HOUR TRAINS			
Haverhill		•	1			
Lowell	•		1			
North Billerica	•	Via Haverhill Line	1			
Wilmington	•		1			
Anderson/Woburn	•	•	2			
Mishawum	*		0*			
Winchester Center	•		1			
Wedgemere	•		1			
West Medford	•		1			
North Station		•	2			
Total Travel Time	48'	59'				

BI-DIRECTIONAL SERVICE

Three trains per day stop at Mishawum in each direction.

Station Stop

Lowell Existing Station

Hourly Service

Hourly Interline Service

## Fitchburg Line

### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Zonal Express	Local	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Wachusett	P	•		2
Fitchburg	•	•		2
N. Leominster	•	•		2
Shirley	•	•		2
Ayer	•	•		2
Littleton/495	•	•	•	3
S. Acton		•	•	2
W. Concord		•	•	2
Concord		•	•	2
Lincoln		•	•	2
Silver Hill		•	•	2
Hastings		•	•	2
Kendal Green		•	•	2
Brandeis/Roberts		•	•	2
Waltham		•	•	2
Waverly		•	•	2
Belmont		•	•	2
Porter Sq.	<b>•</b>	•	•	3
North Station	•		•	3
Total Travel Time	83'	102'	67'	

### **OFF-PEAK HOUR (REPEATING)**

	OTT TEAR TOOK (REFEATING)					
	TYPE OF SERVICE	Local	TOTAL OFF-PEAK			
	FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS			
	Wachusett	•	1			
	Fitchburg	•	1			
	N. Leominster	•	1			
	Shirley	•	1			
	Ayer	•	1			
	Littleton/495	•	1			
	S. Acton	•	1			
	W. Concord	•	1			
	Concord	•	1			
	Lincoln	•	1			
	Silver Hill	•	1			
	Hastings	•	1			
	Kendal Green	•	1			
	Brandeis/Roberts	•	1			
	Waltham	•	1			
	Waverly	•	1			
	Belmont	•	1			
	Porter Sq.	•	1			
,	North Station	•	1			
	Total Travel Time	102'				

BI-DIRECTIONAL SERVICE

Station Stop

Littleton/495 Existing Station

Hourly Service

### MBTA Rail Vision | FINAL REPORT February 2020

### **Worcester Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Zonal Express	Local	TOTAL PEAK	
FREQUENCY (Min.)	Every 70 Min.	Every 30-40 Min.	Every 35 Min.	HOUR TRAINS	
Worcester	•	• •		3	<b>†</b>
Grafton		<b>,</b>		2	
Westborough		<b>+</b> +		2	
Southborough		• •		2	
Ashland		• •		2	
Framingham		• •	• •	4	
West Natick		• •	• •	4	щ
Natick Center		<b>•</b> •	• •	4	BI-DIRECTIONAL SERVICE
Wellesley Square			• •	2	L SE
Wellesley Hills			• •	2	NO
Wellesley Farms			• •	2	
Auburndale			• •	2	- PIR
W. Newton			+ +	2	8
Newtonville			• •	2	
Boston Landing			+ +	2	
West Station			• •	2	
Lansdowne	•	• •	+ +	5	
Back Bay	•	• •	• •	5	
South Station				5	<b>\</b>
Total Travel Time	67'	83'	57'		

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Zonal Express	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Worcester	P	•		2
Grafton		•		1
Westborough		•		1
Southborough		•		1
Ashland		•		1
Framingham	•	•	•	3
West Natick		•	•	2
Natick Center		•	•	2
Wellesley Square			•	1
Wellesley Hills			•	1
Wellesley Farms			•	1
Auburndale			•	1
W. Newton			•	1
Newtonville			•	1
Boston Landing			•	1
West Station			•	1
Lansdowne	•	•	•	3
Back Bay	•	•	•	3
South Station		•	6	3
Total Travel Time	70'	83'	57'	

Station Stop
Framingham Existing Station
West Station Proposed New Station
Hourly Service

### Needham Line

## PEAK HOUR (REPEATING)

TYPE OF SERVICE FREQUENCY (Min.)	<b>Local</b> Every 30 Min.	TOTAL PEAK HOUR TRAINS
Needham Heights	• •	2
Needham Center		2
Needham Junction	• •	2
Hersey	• •	2
West Roxbury	• •	2
Highland	• •	2
Bellevue	• •	2
Roslindale Village	• •	2
Forest Hills	• •	2
Ruggles	• •	2
Back Bay	• •	2
South Station		2
Total Travel Time	47'	

## **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS
Needham Heights	•	1
Needham Center	•	1
Needham Junction	•	1
Hersey	•	1
West Roxbury	•	1
Highland	•	1
Bellevue	•	1
Roslindale Village	•	1
Forest Hills	•	1
Ruggles	•	1
Back Bay	•	1
South Station		1
Total Travel Time	47'	

Station StopWest RoxburyExisting StationHourly Service

### Franklin Line

### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	Local Interline	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Forge Park/495	•	•	2
Franklin	•	•	2
Norfolk	•	•	2
Walpole	•	•	2
Plimptonville	*		0★
Windsor Gardens	•	•	2
Norwood Central	•	•	2
Norwood Depot	•	•	2
Islington	•	•	2
Dedham Corp Ctr	•	•	2
Endicott	•	•	2
Readville	•	•	2
Ruggles	•	Via Fairmount Line	1
Back Bay	•		1
South Station		•	2
Total Travel Time	67'	80'	

### **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS
Forge Park/495	•	1
Franklin	•	1
Norfolk	•	1
Walpole		1
Plimptonville		0
Windsor Gardens	•	1
Norwood Central	•	1
Norwood Depot	•	1
Islington	•	1
Dedham Corp Ctr	•	1
Endicott	•	1
Readville	•	1
Ruggles	•	1
Back Bay	•	1
South Station		1
Total Travel Time	67'	

★ One train per day stops at Plimptonville.

Station Stop

Norwood Central Existing Station

Hourly Service

Hourly Interline Service

### **Fairmount Line**

### PEAK HOUR (REPEATING)

	- /			
TYPE OF SERVICE	Local	Local Interline	TOTAL PEAK	
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	HOUR TRAINS	
		Via Franklin Line		1
Readville	•	Ý	2	"
Fairmount	•	•	2	SERVICE
Blue Hill Ave.	•	•	2	
Morton St.	•	•	2	BI-DIRECTIONAL
Talbot Ave.	•	•	2	
Four Corners/Geneva	•	•	2	
Uphams Corner	•	•	2	8
Newmarket	•	•	2	
South Station	•	•	2	
Total Travel Time	32'	32'		

### **OFF-PEAK HOUR (REPEATING)**

	-	
TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS
Readville	•	1
Fairmount	•	1
Blue Hill Ave.	•	1
Morton St.	•	1
Talbot Ave.	•	1
Four Corners/Geneva	•	1
Uphams Corner	•	1
Newmarket	•	1
South Station		1
Total Travel Time	32'	

Station Stop

Talbot Ave. Existing Station

Hourly Service
Hourly Interline Service

## Providence/Stoughton Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Providence Local	Stoughton Local	Amtrak Regional	Amtrak Acela	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
Wickford Jct.	•		_	<u> </u>	1
TF Green	•		T	Ī	1
Providence	• •		•		2+2
Pawtucket	<b>+</b> +				2
S. Attleboro	<b>+</b> +				2
Attleboro	<b>+</b> +				2
Mansfield	<b>+</b> +				2
Sharon	• •				2
Stoughton		• •			2
Canton Center		<b>†</b> †			2
Canton Jct.		<b>† †</b>			2
Route 128	+ +	<b>†</b> †	•	•	4+2
Hyde Park		<b>† †</b>			2
Ruggles	+ +	+ +			4
Back Bay	+ +	<b>†</b> †	•	•	4+2
South Station	• •	• •	<u> </u>		4+2
Total Travel Time	107' 77'	42'	Varies	Varies	

#### OFF-PEAK HOUR (REPEATING)

	TYPE OF SERVICE	Providence Local	Stoughton Local	Amtrak Regional	Amtrak Acela	TOTAL OFF-PEAK
	FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
1 1	Wickford Jct.	•		_	<u> </u>	1
	TF Green	•		T I	Ī	1
	Providence	•		•	•	1+2
	Pawtucket	•				1
	S. Attleboro	•				1
JCE	Attleboro	•				1
SERVICE	Mansfield	•				1
APL	Sharon	•				1
101	Stoughton		•			1
BI-DIRECTIONAL	Canton Center		•			1
B	Canton Jct.		•			1
	Route 128	•	•	•	•	2+2
	Hyde Park		•			1
	Ruggles	•	•			2
	Back Bay	•	•	•	•	2+2
↓ ↓	South Station	•		•		2+2
	Total Travel Time	107'	42'	Varies	Varies	

Providence Existing Station

Pawtucket Proposed New Station

Hourly Service

Amtrak Service

## Fall River/New Bedford Line

#### PEAK HOUR (REPEATING)

	•			_
TYPE OF SERVICE	Fall River Local	New Bedford Local	TOTAL PEAK	
FREQUENCY (Min.)	Approx. Every 90 Min.	Approx. Every 90 Min.	HOUR TRAINS	
Fall River	•		0-1	<b>†</b>
Freetown	•		0-1	
New Bedford		•	0-1	
North New Bedford		•	0-1	
East Taunton	•	•	1-2	<u>بىر</u>
Middleborough	•	•	1-2	BI-DIRECTIONAL SERVICE
Bridgewater	•	•	1-2	L SE
Campello	•	•	1-2	No
Brockton	•	•	1-2	
Montello	•	•	1-2	
Holbrook/Randolph	•	•	1-2	<u> ۵</u>
Braintree	•	•	1-2	
Quincy Center			0	
JFK/UMass	•	•	1-2	
South Station	•	•	1-2	]
Total Travel Time	88'	89'		<u> </u>

#### **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE	Fall River Local	New Bedford Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Varied	Varied	HOUR TRAINS
Fall River	•		0-1
Freetown	•		0-1
New Bedford		•	0-1
North New Bedford		•	0-1
East Taunton	•	•	0-1
Middleborough	•	•	0-1
Bridgewater	•	•	0-1
Campello	•	•	0-1
Brockton	•	•	0-1
Montello	•	•	0-1
Holbrook/Randolph	•	•	0-1
Braintree	•	•	0-1
Quincy Center			0
JFK/UMass			0
South Station	•	•	0-1
Total Travel Time	88'	89'	

Station Stop

Brockton Existing Station

New Bedford Proposed New Station

Approx. Hourly Service

Periodic Service

### Kingston/Plymouth Line

### **PEAK HOUR (REPEATING)**

, (	TEAR HOOR (RELEATING)				
TYPE OF SERVICE	Local	TOTAL PEAK			
FREQUENCY (Min.)	Approx. Every 45 Min.	HOUR TRAINS			
Plymouth		0			
Kingston	•	1-2			
Halifax	•	1-2			
Hanson	•	1-2			
Whitman	•	1-2			
Abington	•	1-2			
South Weymouth	•	1-2			
Braintree	•	1-2			
Quincy Center		0			
JFK/UMass	•	1-2			
South Station		1-2			
Total Travel Time	59'				

### **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE FREQUENCY (Min.)	<b>Local</b> Approx. Every 120 Min.	TOTAL OFF-PEAK HOUR TRAINS
Plymouth	•*	0-1
Kingston	•*	0-1
Halifax	•	1
Hanson	•	1
Whitman	•	1
Abington	•	1
South Weymouth	•	0-1
Braintree	•	0-1
Quincy Center		0
JFK/UMass		0
South Station	•	0-1
Total Travel Time	59'	

Approximately half of trains stop at Kingston and half of trains stop at Plymouth during off-peak periods. Some trains stop at both stations.

Station Stop

**BI-DIRECTIONAL SERVICE** 

Kingston Existing Station

Approx. Hourly Service

Approx. Bi-Hourly Service

### **Greenbush Line**

### **PEAK HOUR (REPEATING)**

TYPE OF SERVICE	Local	TOTAL PEAK
FREQUENCY (Min.)	Approx. Every 45 Min.	HOUR TRAINS
Greenbush	•	1-2
North Scituate	•	1-2
Cohasset	•	1-2
Nantasket Jct.	•	1-2
West Hingham	•	1-2
East Weymouth	•	1-2
Weymouth Landing/ East Braintree		1-2
Quincy Center	•	1-2
JFK/UMass	•*	0-1
South Station		1-2
Total Travel Time	59'	

### **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Approx. Every 120 Min.	HOUR TRAINS
Greenbush	•	0-1
North Scituate	•	0-1
Cohasset	•	0-1
Nantasket Jct.	•	0-1
West Hingham	•	0-1
East Weymouth	•	0-1
Weymouth Landing/ East Braintree	•	0-1
Quincy Center	•	0-1
JFK/UMass		0
South Station		0-1
Total Travel Time	59'	

Approximately half of trains stop at JFK/UMass during peak period.

**Station Stop** 

Greenbush **Existing Station** 

**Approx. Hourly Service** 

Approx. Bi-Hourly Service

## Alternative 2

## Newburyport/Rockport Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Rockport Local	Rockport Express	Newburyport Local	Newburyport Express	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Rockport	9	P			2
Gloucester	•	•			2
West Gloucester	•				1
Manchester	•				1
Beverly Farms	•				1
Prides Crossing	•				1
Montserrat	•				1
Newburyport			•	•	2
Rowley			•		1
lpswich			•		1
Hamilton/Wenham			•		1
North Beverly			•		1
Beverly	•	•	•	•	4
Salem	•	•	•	•	4
Swampscott	•		•		2
Lynn	•	•	•	•	4
River Works	•		•		2
Chelsea	•		•		2
North Station		•	•		4
Total Travel Time	83'	60'	71'	54'	

#### OFF-PEAK HOUR (REPEATING)

	TYPE OF SERVICE FREQUENCY (Min.)	Rockport Local  Every 60 Min.	Rockport Express Every 60 Min.	Newburyport Local  Every 60 Min.	Newburyport Express Every 60 Min.	TOTAL OFF-PEAK HOUR TRAINS
<b>†</b>	Rockport	•	•			2
	Gloucester					2
	West Gloucester	•				1
	Manchester	•				1
	Beverly Farms	•				1
	Prides Crossing	•				1
.	Montserrat	•				1
BI-DIKECTIONAL SERVICE	Newburyport			•	•	2
7	Rowley			•		1
S S	lpswich			•		1
급	Hamilton/Wenham			•		1
Ž	North Beverly			•		1
20	Beverly	•	•	•	•	4
	Salem	•	•	•	•	4
	Swampscott	•		•		2
	Lynn	•	•	•	•	4
	River Works	•		•		2
	Chelsea	•		,		2
1	North Station		•	J.		4
	Total Travel Time	83'	60'	71'	54'	

Station Stop
Salem
Key Existing Station
Manchester
Existing Station
Hourly Service

### **Haverhill Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Local	TOTAL PEAK	
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS	
Haverhill	9 9	9 9	4	1
Bradford		<b>† †</b>	2	
Lawrence	+ +	<b>+</b> +	4	
Andover		<b>† †</b>	2	Ш
Ballardvale		<b>† †</b>	2	빌
North Wilmington		<b>† †</b>	2	SERVICE
Reading	+ +	<b>† †</b>	4	
Wakefield		<b>† †</b>	2	BI-DIRECTIONAL
Greenwood		<b>♦ ♦</b>	2	I SEC
Melrose Highlands		<b>† †</b>	2	B-C
Melrose Cedar Park		<b>† †</b>	2	
Wyoming Hill		<b>† †</b>	2	Ш
Malden Center	<b>† †</b>	<b>† †</b>	4	
North Station	<u> </u>	4 4	4	] ↓
Total Travel Time	54'	74'		

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Local	TOTAL OFF-PEAK HOUR TRAINS
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	
<b>↑</b> Haverhill	• •	• •	4
Bradford		<b>† †</b>	2
Lawrence	• •	<b>† †</b>	4
Andover		• •	2
Ballardvale		<b>♦ ♦</b>	2
North Wilmington		• •	2
Reading	<b>•</b> •	<b>† †</b>	4
Wakefield		<b>† †</b>	2
Greenwood		<b>♦ ♦</b>	2
Melrose Highlands		<b>† †</b>	2
Melrose Cedar Park		<b>† †</b>	2
Wyoming Hill		<b>† †</b>	2
Malden Center	• •	<b>† †</b>	4
North Station	• •	4 4	4
Total Travel Time	54'	74'	

Station Stop

Lawrence Key Existing Station

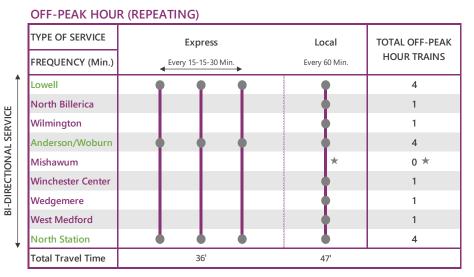
Andover Existing Station

Hourly Service

### **Lowell Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS
Lowell	7 7	• •	4
North Billerica		<b>♦ ♦</b>	2
Wilmington		<b>♦ ♦</b>	2
Anderson/Woburn	• •	<b>† †</b>	4
Mishawum			0
Winchester Center		<b>†</b> †	2
Wedgemere		<b>♦ ♦</b>	2
West Medford		<b>† †</b>	2
North Station	• •	4 4	4
Total Travel Time	36'	47'	



Three trains per day stop at Mishawum in each direction.

Station Stop

Lowell Key Existing Station

West Medford Existing Station

Hourly Service

## Fitchburg Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS
Wachusett		• •	2
Fitchburg	9 9	• •	4
N. Leominster		• •	2
Shirley		• •	2
Ayer		• •	2
Littleton/495	• •	• •	4
S. Acton		• •	2
W. Concord		• •	2
Concord		• •	2
Lincoln		• •	2
Silver Hill		• •	2
Hastings		• •	2
Kendal Green		• •	2
Brandeis/Roberts		• •	2
Waltham	• •	• •	4
Waverly		• •	2
Belmont		• •	2
Porter Sq.	• •	• •	4
North Station		6 6	4
Total Travel Time	63'	103'	

#### OFF-PEAK HOUR (REPEATING)

BI-DIRECTIONAL SERVICE

FI	YPE OF SERVICE REQUENCY (Min.)		-			
-	REQUENCY (Min.)		Express		Local	TOTAL OFF-PEAK
A	REQUERTET (WIII.)		Every 15-15-30	Min.	Every 60 Min.	HOUR TRAINS
1 I	Vachusett				•	1
Fi	itchburg	•	9	•	<b>þ</b>	4
N	I. Leominster				•	1
S	hirley				<b>þ</b>	1
А	yer				•	1
Li	ittleton/495			•	•	4
S	. Acton				•	1
V	V. Concord				•	1
С	Concord				•	1
Li	incoln				•	1
S	ilver Hill				•	1
Н	lastings				•	1
K	endal Green				•	1
В	randeis/Roberts				•	1
V	Valtham		•	•	•	4
V	Vaverly				•	1
В	elmont				•	1
Р	orter Sq.			•	•	4
↓ N	Iorth Station			•	•	4
Т	otal Travel Time		63'		103'	

Station Stop

Littleton/495 Key Existing Station

Concord Existing Station

Hourly Service

### **Worcester Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Zonal Express	Local	TOTAL PEAK	
FREQUENCY (Min.)	Every 60 Min.	Every 30 Min.	Every 30 Min.	HOUR TRAINS	
Worcester	9	• •	•	4	<b>†</b>
Grafton		<b>•</b> •		2	
Westborough		<b>4 4</b>		2	
Southborough		<b>•</b> •		2	
Ashland		<b>4 4</b>		2	
Framingham		• •	• •	4	
West Natick		4 4	• •	4	
Natick Center		• •	• •	4	SERVICE
Wellesley Square			• •	2	L SEI
Wellesley Hills			• •	2	ANC
Wellesley Farms			• •	2	
Auburndale				2	BI-DIRECTIONAL
W. Newton			• •	2	■
Newtonville			• •	2	
Boston Landing			• •	2	
West Station			• •	2	
Lansdowne	•	• •	• •	5	
Back Bay	•	• •	• •	5	
South Station		• •	• •	5	↓
Total Travel Time	67'	83'	88' 55'	•	

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Zonal Express	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Worcester	9 9	•	•	4
Grafton		•		1
Westborough		•		1
Southborough		•		1
Ashland		•		1
Framingham		•	•	4
West Natick		•	•	2
Natick Center		•	•	4
Wellesley Square			•	1
Wellesley Hills			•	1
Wellesley Farms			•	1
Auburndale			•	1
W. Newton			•	1
Newtonville			•	1
Boston Landing			•	1
West Station			•	1
Lansdowne	+ +	•	•	4
Back Bay	• •	•	•	4
South Station	4 4	•		4
Total Travel Time	70'	83'	88'	

Station Stop
Framingham Key Existing Station
Ashland Existing Station
West Station Proposed New Station
Hourly Service

### **Needham Line**

## PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	TOTAL PEAK HOUR TRAINS
FREQUENCY (Min.)	Every 30 Min.	11001(11011110
Needham Heights	• •	2
Needham Center	• •	2
Needham Junction	• •	2
Hersey	• •	2
West Roxbury	• •	2
Highland	• •	2
Bellevue	• •	2
Roslindale Village	• •	2
Forest Hills	• •	2
Ruggles	• •	2
Back Bay	• •	2
South Station		2
Total Travel Time	47'	

## **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TVDE OF CEDVICE		
TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS
Needham Heights	•	1
Needham Center	•	1
Needham Junction	•	1
Hersey	•	1
West Roxbury	•	1
Highland	•	1
Bellevue	•	1
Roslindale Village	•	1
Forest Hills	•	1
Ruggles	•	1
Back Bay	•	1
South Station		1
Total Travel Time	47'	

Station Stop
West Roxbury Existing Station
Hourly Service

### Franklin Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local Franklin	Franklin Interline	Local Foxboro Interline	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Forge Park/495	•	•		2
Franklin	•	•		2
Norfolk	•	•		2
Foxboro			•	1
Walpole	•	•	•	3
Plimptonville				0
Windsor Gardens	•		•	2
Norwood Central	•	•	•	3
Norwood Depot	•		•	2
Islington	•		•	2
Dedham Corp Ctr	•		•	2
Endicott	•		•	2
Readville	•	•	•	3
Ruggles	•			1
Back Bay	•	Via Fairmount Line	Via Fairmount Line	1
South Station		•	ė	3
Total Travel Time	67'	70'	67'	

#### OFF-PEAK HOUR (REPEATING)

BI-DIRECTIONAL SERVICE

	TYPE OF SERVICE	Local Franklin	Franklin Interline	Local Foxboro Interline	TOTAL OFF-PEAK
	FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
1	Forge Park/495	•	•		2
	Franklin	•	•		2
	Norfolk	•	•		2
	Foxboro			•	1
	Walpole	•	•	•	3
	Plimptonville				0
	Windsor Gardens	•			1
	Norwood Central	•	•	•	3
	Norwood Depot	•			1
	Islington	•			1
	Dedham Corp Ctr	•			1
	Endicott	•			1
	Readville	•	•	•	3
	Ruggles	•			1
	Back Bay	•	Via Fairmount Line	Via Fairmount Line	1
<b>\</b>	South Station		•	Ó	3
	Total Travel Time	67'	70'	54'	

Station Stop

Norwood Central Key Existing Station

Islington Existing Station

Hourly Service

Hourly Interline Service

### **Fairmount Line**

### **PEAK HOUR (REPEATING)**

TYPE OF SERVICE	Local Interline	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	HOUR TRAINS
	Via Franklin Line	
Readville	• •	2
Fairmount	+ +	2
Blue Hill Ave.	+ +	2
Morton St.	• •	2
Talbot Ave.	• •	2
Four Corners/Geneva	• •	2
Uphams Corner	+ +	2
Newmarket	+ +	2
South Station	• •	2
Total Travel Time	32'	

### **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

	•	
TYPE OF SERVICE FREQUENCY (Min.)	Local Interline  Every 30 Min.	TOTAL OFF-PEAK HOUR TRAINS
	Via Franklin Line	
Readville	• •	2
Fairmount	+ +	2
Blue Hill Ave.	• •	2
Morton St.	<b>•</b> •	2
Talbot Ave.	<b>•</b> •	2
Four Corners/Geneva	<b>•</b> •	2
Uphams Corner	<b>•</b> •	2
Newmarket	• •	2
South Station	1 1	2
Total Travel Time	32'	



### MBTA Rail Vision | FINAL REPORT February 2020

## Providence/Stoughton Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Providence Express	Providence Local	Stoughton Local	Amtrak Regional	Amtrak Acela	TOTAL PEAK	
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 30 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS	ı
Wickford Jct.		•		_	<b>A</b>	1	1
TF Green		•				1	ı
Providence	•	•		•	•	2+2	ı
Pawtucket		•				1	ı
S. Attleboro		•				1	ı
Attleboro		•				1	ı
Mansfield	ψ	•				2	ı
Sharon		•				1	ı
Stoughton			9 9			2	ı
Canton Center			+ +			2	ı
Canton Jct.			• •			2	ı
Route 128	ψ	•	+ +	•	•	4+2	ı
Hyde Park			+ +			2	
Ruggles	•	•	+ +			4	ı
Back Bay	•	•	<b>•</b> •	•	•	4+2	
South Station		6	• •		•	4+2	
Total Travel Time	56'	107'	42'	52'	47'		

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Providence Express	Providence Local	Stoughton Local	Amtrak Regional	Amtrak Acela	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
Wickford Jct.		•		_	<u> </u>	1
TF Green		•		T	T	1
Providence	•	•		•	•	2+2
Pawtucket		•				1
S. Attleboro		•				1
Attleboro		•				1
Mansfield	•	•				2
Sharon		•				1
Stoughton			•			1
Canton Center			•			1
Canton Jct.			•			1
Route 128	•	•	•	•	•	3+2
Hyde Park			•			1
Ruggles	•	•	•			3
Back Bay	•	•	•	•	•	3+2
South Station				•	•	3+2
Total Travel Time	56'	107'	42'	52'	47'	

•	Station Stop
Providence	Key Existing Station
Sharon	Existing Station
Pawtucket	Proposed New Station
	Hourly Service
	Hourly Electrified Service
	Amtrak Service

## Fall River/New Bedford

### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Fall River Local	New Bedford Local	TOTAL PEAK	
FREQUENCY (Min.)	Every 90 Min.	Every 90 Min.	HOUR TRAINS	
Fall River	•		0-1	1
Freetown	•		0-1	
New Bedford		•	0-1	
North New Bedford		•	0-1	
East Taunton	•	•	1-2	
Middleborough	•	•	1-2	
Bridgewater	•	•	1-2	
Campello	•	•	1-2	
Brockton	•	•	1-2	
Montello	•	•	1-2	
Holbrook/Randolph	•	•	1-2	
Braintree	•	•	1-2	
Quincy Center			0	
JFK/UMass	•	•	1-2	
South Station			1-2	
Total Travel Time	88'	89'		] `

### **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE	Fall River Local	New Bedford Local	TOTAL OFF-PEAK HOUR TRAINS
FREQUENCY (Min.)	Varied	Varied	HOOK TRAINS
Fall River	•		0-1
Freetown	•		0-1
New Bedford	•	•	0-1
North New Bedford	•	•	0-1
East Taunton	•	•	0-1
Middleborough	•	•	0-1
Bridgewater	•	•	0-1
Campello	•	•	0-1
Brockton	•	•	0-1
Montello	•	•	0-1
Holbrook/Randolph	•	•	0-1
Braintree	•	•	0-1
Quincy Center			0
JFK/UMass			0
South Station	•	•	0-1
Total Travel Time	88'	89'	

Station Stop

Brockton

Key Existing Station

Fall River

Key Proposed New Station

Bridgewater

Existing Station

Proposed New Station

Approx. Hourly Service

Periodic Service

### Kingston/Plymouth Line

### **PEAK HOUR (REPEATING)**

TYPE OF SERVICE	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 45 Min.	HOUR TRAINS
Plymouth		0
Kingston	•	1-2
Halifax	•	1-2
Hanson	•	1-2
Whitman	•	1-2
Abington	•	1-2
South Weymouth	•	1-2
Braintree	•	1-2
Quincy Center		0
JFK/UMass	•	1-2
South Station		1-2
Total Travel Time	59'	

### **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 120 Min.	HOUR TRAINS
Plymouth	•*	0-1
Kingston	•*	0-1
Halifax	•	1
Hanson	•	1
Whitman	•	1
Abington	•	1
South Weymouth	•	0-1
Braintree	•	0-1
Quincy Center		0
JFK/UMass		0
South Station	•	0-1
Total Travel Time	59'	

\* Approximately half of trains stop at Kingston and half of trains stop at Plymouth during off-peak periods. Some trains stop at both stations.

**BI-DIRECTIONAL SERVICE** 

Station Stop

Kingston Key Existing Station

Whitman Existing Station

Approx. Hourly Service

Approx. Bi-Hourly Service

### **Greenbush Line**

## PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 45 Min.	HOUR TRAINS
Greenbush	•	1-2
North Scituate	•	1-2
Cohasset	•	1-2
Nantasket Jct.	•	1-2
West Hingham	•	1-2
East Weymouth	•	1-2
Weymouth Landing/ East Braintree		1-2
Quincy Center	•	1-2
JFK/UMass	•*	0-1
South Station		1-2
Total Travel Time	59'	

### **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 120 Min.	HOUR TRAINS
Greenbush	•	0-1
North Scituate	•	0-1
Cohasset	•	0-1
Nantasket Jct.	•	0-1
West Hingham	•	0-1
East Weymouth	•	0-1
Weymouth Landing/ East Braintree	•	0-1
Quincy Center	•	0-1
JFK/UMass		0
South Station		0-1
Total Travel Time	59'	

★ Approximately half of trains stop at JFK/UMass during peak period.

Station Stop

Kingston Key Existing Station

Greenbush Existing Station

Approx. Hourly Service

Approx. Bi-Hourly Service

## Alternative 3

## Newburyport/Rockport Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Rockport Local	Rockport Express	Newburyport Local	Newburyport Express	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Rockport	•	•			2
Gloucester	•	•			2
West Gloucester	•				1
Manchester	•				1
Beverly Farms	•				1
Prides Crossing	•				1
Montserrat	•				1
Newburyport			•	•	2
Rowley			•		1
lpswich			•		1
Hamilton/Wenham			•		1
North Beverly			•		1
Beverly	•	•	•	•	4
Salem	•	•	•	•	4
Swampscott	•		•		2
Lynn	•	•	•	•	4
River Works	•		•		2
Chelsea	•		•		2
North Station	•	•	•		4
Total Travel Time	65'	52'	60'	49'	

#### OFF-PEAK HOUR (REPEATING)

	TYPE OF SERVICE FREQUENCY (Min.)	Rockport Local  Every 60 Min.	Rockport Express Every 60 Min.	Newburyport Local Every 60 Min.	Newburyport Express Every 60 Min.	TOTAL OFF-PEAK HOUR TRAINS
<b>†</b>	Rockport	•	•			2
	Gloucester	•	•			2
	West Gloucester	•				1
	Manchester	•				1
	Beverly Farms	•				1
	Prides Crossing	•				1
ш	Montserrat	•				1
BI-DIRECTIONAL SERVICE	Newburyport			•	9	2
LSE	Rowley			•		1
S S	lpswich			•		1
2	Hamilton/Wenham			•		1
<u> </u>	North Beverly			•		1
20	Beverly	•	•	•	•	4
	Salem	•	•	•	•	4
	Swampscott	•		•		2
	Lynn	•	•	•	•	4
	River Works	•		•		2
	Chelsea	•		•		2
ļ	North Station		4	6		4
	Total Travel Time	65'	52'	60'	49'	

Station Stop
Salem Key Existing Station
Manchester Existing Station
Hourly Electrified Service

### Haverhill

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS
Haverhill	9 9	9 9	4
Bradford		• •	2
Lawrence	• •	• •	4
Andover		• •	2
Ballardvale		• •	2
North Wilmington		• •	2
Reading	<b>•</b> •	• •	4
Wakefield		• •	2
Greenwood		• •	2
Melrose Highlands		• •	2
Melrose Cedar Park		• •	2
Wyoming Hill		<b>•</b> •	2
Malden Center	<b>† †</b>	• •	4
North Station	<b>b b</b>	4 4	4
Total Travel Time	48'	62'	

#### OFF-PEAK HOUR (REPEATING)

BI-DIRECTIONAL SERVICE

	TYPE OF SERVICE FREQUENCY (Min.)	Express Every 30 Min.	Local Every 30 Min.	TOTAL OFF-PEAK HOUR TRAINS
<b>†</b>	Haverhill	• •	• •	4
	Bradford		4 4	2
	Lawrence	• •	4 4	4
	Andover		• •	2
	Ballardvale		<b>•</b> •	2
	North Wilmington		<b>•</b> •	2
	Reading	<b>†</b> •	<b>•</b> •	4
	Wakefield		<b>† †</b>	2
	Greenwood		<b>•</b> •	2
	Melrose Highlands		<b>† †</b>	2
	Melrose Cedar Park		<b>•</b> •	2
	Wyoming Hill		<b>† †</b>	2
	Malden Center	<b>† †</b>	<b>† †</b>	4
•	North Station	• •	4 4	4
	Total Travel Time	48'	62'	

Station Stop

Lawrence Key Existing Station

Andover Existing Station

Hourly Electrified Service

### Lowell

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS
Lowell	9 9	• •	4
North Billerica		• •	2
Wilmington		<b>,</b>	2
Anderson/Woburn	• •	• •	4
Mishawum			0
Winchester Center		• •	2
Wedgemere		• •	2
West Medford		• •	2
North Station		4 4	4
Total Travel Time	34'	42'	

BI-DIRECTIONAL SERVICE

OFF-PEAK HOU	R (REPEATI	NG)			
TYPE OF SERVICE	Express		Local	TOTAL OFF-PEAK	
FREQUENCY (Min.)	Eve	ery 15-15-30	Min.	Every 60 Min.	HOUR TRAINS
Lowell	•	•	P	•	4
North Billerica				•	1
Wilmington				•	1
Anderson/Woburn	•	•	•	•	4
Mishawum				*	0 *
Winchester Center				•	1
Wedgemere				•	1
West Medford				•	1
North Station			•	•	4
Total Travel Time		34'		42'	

Three trains per day stop at Mishawum in each direction.

Station Stop

Lowell Key Existing Station
West Medford Existing Station

Hourly Electrified Service

## Fitchburg Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Fitchburg Express	Fitchburg Local	Grand Junction Shuttle	TOTAL PEAK HOUR	
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 15 Min.	TRAINS	
Wachusett		9 9		2	<b>†</b>
Fitchburg	9 9	4 4		4	
N. Leominster		4 4		2	
Shirley		4 4		2	
Ayer		4 4		2	
Littleton/495	• •	• •		4	
S. Acton		4 4		2	ш
W. Concord		4 4		2	BI-DIRECTIONAL SERVICE
Concord		4 4		2	L SE
Lincoln		4 4		2	NO NO
Silver Hill		4 4		2	ECT
Hastings		4 4		2	- PR
Kendal Green		4 4		2	8
Brandeis/Roberts		4 4		2	
Waltham	<b>•</b> •	4 4		4	
Waverly		4 4		2	
Belmont		4 4		2	
Porter Sq.	<b>•</b> •	<b>†</b> †		4	
West Station			* * * *	4	
Kendall			+ + + +	4	
North Station	4 4	1 1		8 ,	ļ
Total Travel Time	59'	89'	20'		

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Fitchburg Express	Fitchburg Local	Grand Junction Shuttle	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 15 Min.	HOUR TRAINS
Wachusett		9 9		2
Fitchburg	9 9	• •		4
N. Leominster		4 4		2
Shirley		• •		2
Ayer		4 4		2
Littleton/495	• •	4 4		4
S. Acton		• •		2
W. Concord		• •		2
Concord		4 4		2
Lincoln		• •		2
Silver Hill		4 4		2
Hastings		4 4		2
Kendal Green		• •		2
Brandeis/Roberts		4 4		2
Waltham	<b>+</b> +	• •		4
Waverly		• •		2
Belmont		4 4		2
Porter Sq.	<b>†</b> †	4 4		4
West Station				4
Kendall				4
North Station	4 4	4 4		8
Total Travel Time	59'	89'	20'	

Station Stop

Littleton/495 Key Existing Station

West Station Proposed New Key Station

Concord Existing Station

Mass. Ave. Proposed New Station

Hourly Electrified Service

### **Worcester Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Zonal Express	Local	TOTAL PEAK	
FREQUENCY (Min.)	Every 60 Min.	Every 30 Min.	Every 30 Min.	HOUR TRAINS	
Worcester	•	• •	• •	5	<b>†</b>
Grafton		<b>4 4</b>		2	
Westborough		<b>4 4</b>		2	
Southborough		<b>•</b> •		2	
Ashland		<b>•</b> •		2	
Framingham		<b>4 4</b>	• •	4	
West Natick		<b>4 4</b>	<b>+</b> +	4	
Natick Center		• •	• •	4	
Wellesley Square			<b>+</b> +	2	
Wellesley Hills			• •	2	
Wellesley Farms			+ +	2	į
Auburndale			<b>+</b> +	2	
W. Newton			<b>+</b> +	2	
Newtonville			• •	2	
Boston Landing			<b>+</b> +	2	
West Station	•	<b>•</b> •	<b>•</b> •	5	
Lansdowne	•	<b>† †</b>	<b>+</b> +	5	
Back Bay	•	• •	<b>•</b> •	5	
South Station	•	• •	4 4	5	<b>\</b>
Total Travel Time	62'	72'	77'		

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Zonal Express	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Worcester	9 9	•	•	4
Grafton		•		1
Westborough		•		1
Southborough		•		1
Ashland		•		1
Framingham		•	•	4
West Natick		•	•	2
Natick Center		•	•	4
Wellesley Square			•	1
Wellesley Hills			•	1
Wellesley Farms			•	1
Auburndale			•	1
W. Newton			•	1
Newtonville			•	1
Boston Landing			•	1
West Station		•	•	4
Lansdowne	+ +	•	•	4
Back Bay			•	4
South Station	1 1	4		4
Total Travel Time	64'	72'	77'	

Station Stop
Framingham Key Existing Station
West Station Proposed New Key Station
Ashland Existing Station

**Hourly Electrified Service** 

### Needham Line

## PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	HOUR TRAINS
Needham Heights	• •	2
Needham Center		2
Needham Junction	• •	2
Hersey	• •	2
West Roxbury	• •	2
Highland	• •	2
Bellevue	• •	2
Roslindale Village	• •	2
Forest Hills	• •	2
Ruggles	• •	2
Back Bay	• •	2
South Station		2
Total Travel Time	40'	

## **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS
Needham Heights	•	1
Needham Center	•	1
Needham Junction	•	1
Hersey	•	1
West Roxbury	•	1
Highland	•	1
Bellevue	•	1
Roslindale Village	•	1
Forest Hills	•	1
Ruggles	•	1
Back Bay	•	1
South Station		1
Total Travel Time	40'	

Station Stop

West Roxbury Existing Station

Hourly Electrified Service

### Franklin Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local Franklin	Franklin Interline	Local Foxboro	Zonal Foxboro Interline	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Forge Park/495	•	•			2
Franklin	•	•			2
Norfolk	•	•			2
Foxboro			•	•	2
Walpole	•	•	•	•	4
Plimptonville					0
Windsor Gardens	•		•		2
Norwood Central	•	•	•	•	4
Norwood Depot	•		•		2
Islington	•		•		2
Dedham Corp Ctr	•		•		2
Endicott	•		•		2
Readville	•	•	•	•	4
Ruggles	•		•		2
Back Bay	•	Via Fairmount Line	•	Via Fairmount Line	2
South Station		ė		ė	4
Total Travel Time	61'	64'	50'	51'	

#### OFF-PEAK HOUR (REPEATING)

	TYPE OF SERVICE	Local Franklin	Franklin Interline	Local Foxboro	Zonal Foxboro Interline	TOTAL OFF-PEAK
	FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 60 Min.	HOUR TRAINS
•	Forge Park/495	9	•			2
	Franklin	•	•			2
	Norfolk	•	•			2
	Foxboro			P	•	2
	Walpole	•	•	•	•	4
빌	Plimptonville					0
SERVICE	Windsor Gardens	•		•		2
AAL	Norwood Central	•	•	•	•	4
BI-DIRECTIONAL	Norwood Depot	•		•		2
IREC	Islington	•		•		2
B-C	Dedham Corp Ctr	•		•		2
	Endicott	•		•		2
	Readville	•	•	•	•	4
	Ruggles	•		•		2
	Back Bay	•	Via Fairmount Line	•	Via Fairmount Line	2
.	South Station		Ó		ė	4
•	Total Travel Time	61'	64'	50'	51'	

Norwood Central Key Existing Station
Islington Existing Station
Hourly Electrified Service
Hourly Electrified Interline Service

### **Fairmount Line**

### PEAK HOUR (REPEATING)

	,			
TYPE OF SERVICE	Local Interline		TOTAL PEAK	
FREQUENCY (Min.)	Every 30 Min.		HOUR TRAINS	
	Via Frank	klin Line		1
Readville	•	•	2	
Fairmount	•	•	2	TOWARD IN INCIDENCE
Blue Hill Ave.	•	•	2	
Morton St.	•	•	2	
Talbot Ave.	•	•	2	E
Four Corners/Geneva	•	•	2	
Uphams Corner	•	•	2	٥
Newmarket		•	2	
South Station			2	
Total Travel Time	30	)'		

## **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE FREQUENCY (Min.)	Local Interline  Every 30 Min.	TOTAL OFF-PEAK HOUR TRAINS
	Via Franklin Line	
Readville	• •	2
Fairmount	+ +	2
Blue Hill Ave.	• •	2
Morton St.	• •	2
Talbot Ave.	• •	2
Four Corners/Geneva	• •	2
Uphams Corner	• •	2
Newmarket	• •	2
South Station	• •	2
Total Travel Time	30'	

Talbot Ave. Existing Station
Hourly Electrified Service
Hourly Electrified Interline Service

## Providence/Stoughton Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Providence Express	Provide	ence Local	South Coast Rail Full Bui	ild Amtrak Regional	Amtrak Acela	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 15	-15-30 Min.	Every 60 Min. Every 60 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
Wickford Jct.		•			<b>+</b>	<b>A</b>	1
TF Green		•					1
Providence	•	•	• •		•	•	4+2
Pawtucket		•	• •				3
S. Attleboro		•	• •	Via Fall River/New Bedford L	ine		3
Attleboro		•	• •				3
Mansfield	•	•	• •				4
Sharon		•	• •				3
Stoughton				•			1
Canton Center				•			1
Canton Jct.				•			1
Route 128	•	•	• •	• •	•	•	6+2
Hyde Park				•			1
Ruggles	•	•	• •	• •			6
Back Bay	•	•	• •	<b>+</b> +	•	•	6+2
South Station	•		• •	8 8	•	•	6+2
Total Travel Time	55'	96'	68' 68'	35' 20'	52'	47'	

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Providence Express	Provide	ence Local	South Coast Rail Full Bui	ld Amtrak Regional	Amtrak Acela	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 15	-15-30 Min.	Every 60 Min. Every 60 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
Wickford Jct.		•			<b>A</b>	<b>A</b>	1
TF Green		•					1
Providence	•	•	• •		•	•	4+2
Pawtucket		•	• •				3
S. Attleboro		•	• •	Via Fall River/New Bedford			3
Attleboro		•	• •				3
Mansfield	•	•	• •				4
Sharon		•	• •				3
Stoughton				•			1
Canton Center				•			1
Canton Jct.				•			1
Route 128	•	•	• •	• •	•	•	6+2
Hyde Park				•			1
Ruggles	•	•	• •	• •			6
Back Bay	•	•	• •	• •	•	•	6+2
South Station	•	•	6 6		•	•	6+2
Total Travel Time	55'	96'	68' 68'	35' 20'	52'	47'	



Station Stop
Key Existing Station
Existing Station
Proposed New Station
Hourly Electrified Service
Hourly Electrified Interline Service
Amtrak Service

### Fall River/New Bedford Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Fall River	New Bedford	TOTAL PEAK	
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	HOUR TRAINS	
Battleship Cove	•		1	<b>†</b>
Fall River	•		1	
Freetown	•		1	
New Bedford		•	1	
North New Bedford		•	1	
East Taunton	•	•	2	
Taunton	•		1	J.
Raynham Place	•		1	BI-DIRECTIONAL SERVICE
Easton Village	•		1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
North Easton	•	•	2	Į Į
Stoughton		•	1	IREC
Canton Center		•	1	d
Canton Jct.		•	1	
Route 128	•	•	2	
Hyde Park		•	2	
Ruggles	•	•	2	
Back Bay	•	•	2	
South Station			2	
Total Travel Time	77'	73'		,

#### **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE	Fall River	New Bedford	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	HOUR TRAINS
Battleship Cove	•		1
Fall River	•		1
Freetown	•		1
New Bedford		•	1
North New Bedford		•	1
East Taunton	•	•	2
Taunton	•		1
Raynham Place	•		1
Easton Village	•		1
North Easton	•	•	2
Stoughton		•	1
Canton Center		•	1
Canton Jct.		•	1
Route 128	•	•	2
Hyde Park		•	2
Ruggles	•	•	2
Back Bay	•	•	2
South Station		•	2
Total Travel Time	77'	73'	

Station Stop

Route 128 Key Existing Station

Fall River Key Proposed New Station

Stoughton Existing Station

North New Bedford Proposed New Station

Hourly Electrified Service

## Middleborough Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Local	TOTAL PEAK HOUR TRAINS
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS
Middleborough		9 9	2
Bridgewater		+ +	2
Campello		4 4	2
Brockton	• •	<b>†</b> •	4
Montello		<b>†</b> †	2
Holbrook/Randolph		<b>†</b> †	2
Braintree	• •	<b>†</b> †	4
Quincy Center		<b>†</b> •	2
JFK/UMass		4 4	2
South Station	• •	4 4	4
Total Travel Time	28'	55'	

#### **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE FREQUENCY (Min.)	Express Every 60 Min.	Local  Every 15-15-30 Min.  ▶	TOTAL OFF-PEAK HOUR TRAINS
Middleborough		7 7 7	1
Bridgewater		+ + +	1
Campello		+ + +	1
Brockton	P	+ + +	4
Montello		+ + +	1
Holbrook/Randolph		+ + +	1
Braintree	•	<b>+</b> + +	4
Quincy Center		<b>*</b> * *	1
JFK/UMass			1
South Station	6		4
Total Travel Time	28'	55'	

Station Stop

Brockton Key Existing Station

Bridgewater Existing Station

Hourly Electrified Service

# Kingston/Plymouth Line

## PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	TOTAL PEAK	
FREQUENCY (Min.)	Ever	y 30 Min.	HOUR TRAINS
Plymouth			0
Kingston	•	•	2
Halifax	•	•	2
Hanson	•	•	2
Whitman	•	•	2
Abington		•	2
South Weymouth			2
Braintree	•	•	2
South Station			1
		Via Greenbush Line	
Total Travel Time	51'	56' (to S. Station)	

## **OFF-PEAK HOUR (REPEATING)**

BI-DIRECTIONAL SERVICE

	- /	
TYPE OF SERVICE	Local Interline	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS
Plymouth		0
Kingston	•	1
Halifax	•	1
Hanson	•	1
Whitman	•	1
Abington	•	1
South Weymouth	•	1
Braintree	•	1
South Station		
	Via Greenbush Line	
Total Travel Time	56' (to S. Station)	

Station Stop

Kingston Key Existing Station

Whitman Existing Station

Hourly Electrified Service

Hourly Electrified Interline Service

#### **Greenbush Line**

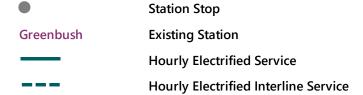
# PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local Interline		TOTAL PEAK
FREQUENCY (Min.)	Every	30 Min.	HOUR TRAINS
Greenbush	Ŷ	•	2
North Scituate	•	•	2
Cohasset	•	•	2
Nantasket Jct.	•	•	2
West Hingham	•	•	2
East Weymouth	•	•	2
Weymouth Landing/ East Braintree		•	2
Braintree	•	•	2
South Station			1
		Via Kingston Line	
Total Travel Time	52'	60' (to S. Station)	

# **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE	Local Interline	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS
Greenbush	P	1
North Scituate	•	1
Cohasset	•	1
Nantasket Jct.	•	1
West Hingham	•	1
East Weymouth	•	1
Weymouth Landing/ East Braintree	+	1
Braintree	•	1
South Station		
	Via Kingston Line	
Total Travel Time	60' (to S. Station)	



## **Alternative 4**

# Newburyport/Rockport Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Rockport Local	Rockport Branch	Newburyport Local	Newburyport Branch	Urban Rail	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 30 Min.	HOUR TRAINS
Rockport	•	•				2
Gloucester	•	•				2
West Gloucester	•	•				2
Manchester	•	•				2
Beverly Farms	•	•				2
Prides Crossing	•	•				2
Montserrat	•	•				2
Newburyport			•	•		2
Rowley			•	•		2
lpswich			•	•		2
Hamilton/Wenham			•	•		2
North Beverly			•	•		2
Beverly	•	•	•	•	9 9	4
Salem	•		•		+ +	4
Swampscott	•		•		• •	4
Lynn	•		•		• •	4
River Works	•		•		<b>+</b> +	4
Wonderland	•		•		• •	4
Chelsea	•		•		• •	4
North Station			•		<u> </u>	4
Total Travel Time	85'	43'	74'	33'	41'	

#### OFF-PEAK HOUR (REPEATING)

	OTT TEAKTIOOK	(112.12.11110)			
	TYPE OF SERVICE	Rockport Local	Newburyport Local	Urban Rail	TOTAL OFF-PEAK
	FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 30 Min.	HOUR TRAINS
<b>†</b>	Rockport	9			1
	Gloucester	•			1
	West Gloucester	•			1
	Manchester	•			1
	Beverly Farms	•			1
	Prides Crossing	•			1
	Montserrat	•			1
	Newburyport		9		1
	Rowley		•		1
	lpswich		•		1
	Hamilton/Wenham		•		1
	North Beverly		•		1
	Beverly	•	•	• •	4
	Salem	•	•	• •	4
	Swampscott	•	•	• •	4
	Lynn	•	•	• •	4
	River Works	•	•	• •	4
	Wonderland	•	•	• •	4
	Chelsea	•	•	<b>† †</b>	4
-	North Station		6	<u> </u>	4
	Total Travel Time	85'	74'	41'	

Station Stop

Newburyport Existing Station

Salem Existing Inner Core Station

Wonderland Proposed New Inner Core Station

Hourly Service

Hourly DMU Service

## Haverhill Line

#### PEAK HOUR (REPEATING)

FLAK HOOK (KLFLA		<del></del>		
TYPE OF SERVICE	Local	Urban Rail	TOTAL PEAK	
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS	
Haverhill	• •		2	1
Bradford	• •		2	
Lawrence	• •		2	
Andover	• •		2	
Ballardvale	+ +		2	١,
North Wilmington	• •		2	
<i>I-93</i>	• •	• •	4	
Reading	• •	• •	4	
Wakefield	<b>+</b> +	• •	4	l
Greenwood	• •	• •	4	:
Melrose Highlands	+ +	• •	4	'
Melrose Cedar Park	• •	• •	4	
Wyoming Hill	• •	• •	4	
Malden Center	• •	• •	4	
North Station		• •	4	
Total Travel Time	68'	36'		

TYPE OF SERVICE FREQUENCY (Min.)	<b>Local</b> Every 60 Min.	Local Every 60 Min.	Urban Rail	TOTAL OFF-PEAK HOUR TRAINS
Haverhill	•			1
Bradford	•			1
Lawrence	•			1
Andover	•			1
Ballardvale	•			1
North Wilmington	•			1
<i>I-93</i>	•	•	• •	4
Reading	•	•	• •	4
Wakefield	•	ø	• •	4
Greenwood	•	þ	• •	4
Melrose Highlands	•	•	• •	4

4

4

4

OFF-PEAK HOUR (REPEATING)

Melrose Cedar Park
Wyoming Hill

Malden Center

North Station

Total Travel Time

68'

	Station Stop
Lawrence	Existing Station
Reading	<b>Existing Inner Core Station</b>
<i>I-93</i>	Proposed New Inner Core Station
	Hourly Service
	Hourly DMU Service

# **Lowell Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	Urban Rail	TOTAL PEAK HOUR TRAINS	
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.		
Lowell	• •		2	
North Billerica	<b>+</b> +		2	<u>ب</u> بر
Wilmington	<b>† †</b>		2	SFRVICE
Anderson/Woburn	• •	• •	4	
Mishawum	<b>•</b> •	• •	4	NO
Winchester Center	• •	• •	4	BI-DIRECTIONAL
Wedgemere	• •	• •	4	- PIR
West Medford	• •	• •	4	8
North Station	• •	• •	4	
Total Travel Time	49'	25'		•

	OFF-PEAK	HOUR	(REPE	ATING
--	----------	------	-------	-------

	,			
TYPE OF SERVICE FREQUENCY (Min.)	Local Every 60 Min.	Local Every 60 Min.	Urban Rail	TOTAL OFF-PEAK HOUR TRAINS
Lowell	•			1
North Billerica	•			1
Wilmington	•			1
Anderson/Woburn	•	•	• •	4
Mishawum	•	•	• •	4
Winchester Center	•	•	• •	4
Wedgemere	•	•	• •	4
West Medford	•	•	• •	4
North Station	•	•	• •	4
Total Travel Time	49'	27'	25'	-

•	Station Stop
Lowell	<b>Existing Station</b>
Anderson/Woburn	Existing Inner Core Station
	Hourly Service
	Hourly DMU Service

# Fitchburg Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Zonal Express	Local	Local	Urban Rail	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 30 Min.	HOUR TRAINS
Wachusett	•	•			2
Fitchburg	•	•			2
N. Leominster	•	•			2
Shirley	•	•			2
Ayer	•	•			2
Littleton/495	•	•	•		3
S. Acton		•	•		2
W. Concord		•	•		2
Concord		•	•		2
Lincoln		•	•		2
Silver Hill		•	þ		2
Hastings		•	þ		2
Kendal Green		•	•		2
<i>I-95</i>		•	•	• •	4
Brandeis/Roberts		•	•	• •	4
Waltham		•	•	• •	4
Waverly		•	•	• •	4
Belmont		•	•	• •	4
Porter Sq.	•	•	•	• •	5
North Station	•	•	•		5
Total Travel Time	83'	103'	68'	29'	

#### OFF-PEAK HOUR (REPEATING)

	- /			1
TYPE OF SERVICE	Local	Local	Urban Rail	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 30 Min.	HOUR TRAINS
Wachusett	•			1
Fitchburg	•			1
N. Leominster	•			1
Shirley	•			1
Ayer	•			1
Littleton/495	•			1
S. Acton	•			1
W. Concord	•			1
Concord	•			1
Lincoln	•			1
Silver Hill	•			1
Hastings	•			1
Kendal Green	•			1
I-95	•	•	• •	4
Brandeis/Roberts	•	•	+ +	4
Waltham	•	•	+ +	4
Waverly	•	•	+ +	4
Belmont	•	•	+ +	4
Porter Sq.	•	•	+ +	4
North Station		6	• •	4
Total Travel Time	103'	31'	29'	

Station Stop

Littleton/495 Existing Station

Waltham Existing Inner Core Station

1-95 Proposed New Inner Core Station

Hourly Service

Hourly DMU Service

#### **Worcester Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Local	Urban Rail	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 30 Min.	Every 30 Min.	HOUR TRAINS
Worcester	•	9 9		3
Grafton		• •		2
Westborough		• •		2
Southborough		<b>•</b> •		2
Ashland		• •		2
Framingham	•	• •		3
West Natick		• •		2
Natick Center		• •		2
Wellesley Square		• •		2
Wellesley Hills		• •		2
Wellesley Farms		• •		2
Riverside		• •	• •	4
Auburndale		• •	• •	4
W. Newton		• •	• •	4
Newtonville		• •	• •	4
Boston Landing		• •	• •	4
West Station		• •	• •	4
Lansdowne	•	• •	• •	5
Back Bay	•	• •	• •	5
South Station	•	• •	• •	5
Total Travel Time	70'	101'	32'	

#### OFF-PEAK HOUR (REPEATING)

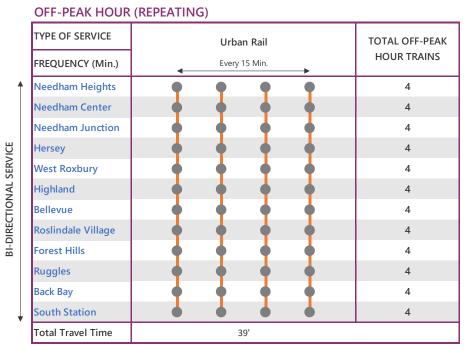
	TYPE OF SERVICE FREQUENCY (Min.)	Express Every 60 Min.	Local Every 30 Min.	Urban Rail	TOTAL OFF-PEAK HOUR TRAINS
<b>*</b>	Worcester	•	• •		3
	Grafton				2
	Westborough		<b>.</b>		2
	Southborough				2
	Ashland		+ +		2
	Framingham	•			3
	West Natick		+ +		2
2	Natick Center		+ +		2
BI-DIRECTIONAL SERVICE	Wellesley Square		+ +		2
AL	Wellesley Hills		+ +		2
5	Wellesley Farms		+ +		2
JÄE L	Riverside		+ +	9 9	4
<u>-</u>	Auburndale		<b>+</b> +	• •	4
	W. Newton		+ +	• •	4
	Newtonville		<b>+</b> +	• •	4
	Boston Landing		+ +	• •	4
	West Station		<b>•</b> •	• •	4
	Lansdowne	<b>d</b>	+ +	• •	5
	Back Bay	<b>•</b>	• •	• •	5
<b>↓</b>	South Station	•	• •	6 6	5
	Total Travel Time	70'	101'	32'	

Station Stop
Framingham Existing Station
Lansdowne Existing Inner Core Station
West Station Proposed New Inner Core Station
Hourly Service
Hourly DMU Service

#### **Needham Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	U	Jrban Rail		TOTAL PEAK		
FREQUENCY (Min.)	<b>—</b> E\	Every 15 Min.				
Needham Heights	9 9	•	•	4		
Needham Center	• •		•	4		
Needham Junction	• •		•	4		
Hersey	• •		•	4		
West Roxbury	• •		•	4		
Highland	• •		•	4		
Bellevue	• •	•	•	4		
Roslindale Village	• •		•	4		
Forest Hills	• •	•	•	4		
Ruggles	• •		•	4		
Back Bay	• •	•	•	4		
South Station	• •			4		
Total Travel Time		39'				



Station Stop

West Roxbury Existing Inner Core Station

Hourly DMU Service

#### Franklin Line

## PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	TOTAL PEAK	
FREQUENCY (Min.)	Every 30 Min.	HOUR TRAINS	
Forge Park/495	• •	2	<b>†</b>
Franklin	• •	2	
Norfolk	• •	2	
Walpole	• •	2	
Plimptonville	*	0*	Щ
Windsor Gardens	• •	2	BI-DIRECTIONAL SERVICE
Norwood Central	• •	2	L SE
Norwood Depot	• •	2	NO No
Islington	• •	2	ECTI
Dedham Corp Ctr	• •	2	I-DIR
Endicott	• •	2	<u>~</u>
Readville	• •	2	
Ruggles	• •	2	
Back Bay	• •	2	
South Station		2	
Total Travel Time	61'		,

### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS
Forge Park/495	P	1
Franklin	•	1
Norfolk	•	1
Walpole	•	1
Plimptonville		0
Windsor Gardens	•	1
Norwood Central	•	1
Norwood Depot	•	1
Islington	•	1
Dedham Corp Ctr	•	1
Endicott	•	1
Readville	•	1
Ruggles	•	1
Back Bay	•	1
South Station		1
Total Travel Time	61'	

 $\star$ 

One train per day stops at Plimptonville.

**Station Stop** 

Norwood Central

**Existing Station** 

**Hourly Service** 

### **Fairmount Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE FREQUENCY (Min.)	<b>←</b>	<b>Urba</b> Every	TOTAL PEAK HOUR TRAINS			
Readville	•	•	•	•	4	1
Fairmount	•			•	4	Д
Blue Hill Ave.				•	4	SERVICE
Morton St.	•			•	4	A P
Talbot Ave.	•			•	4	V
Four Corners/Geneva	•			•	4	Ē
Uphams Corner	•			•	4	RI-DIREC
Newmarket	•			•	4	<u>~</u>
South Station					4	<b>∐</b> ↓
Total Travel Time		2	:7'			]

#### **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE FREQUENCY (Min.)	Urban Rail  Every 15 Min.			TOTAL OFF-PEAK HOUR TRAINS	
Readville	•	•	•	•	4
Fairmount	•				4
Blue Hill Ave.	•				4
Morton St.	•			•	4
Talbot Ave.	•			•	4
Four Corners/Geneva	•			•	4
Uphams Corner	•			•	4
Newmarket	•			•	4
South Station					4
Total Travel Time		2	7'		

Talbot Ave. Existing Inner Core Station
Hourly DMU Service

# Providence/Stoughton Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Providence Local	Stoughton Local	Amtrak Regional	Amtrak Acela	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
Wickford Jct.	P		<u> </u>		1
TF Green			ſ	Î	1
Providence	• •		•	•	2+2
Pawtucket	+ +				2
S. Attleboro	+ +				2
Attleboro	+ +				2
Mansfield	+ +				2
Sharon	+ +				2
Stoughton		• •			2
Canton Center		<b>•</b> •			2
Canton Jct.		<b>•</b> •			2
Route 128	+ +	<b>•</b> •	•	•	4+2
Hyde Park		• •			2
Ruggles	+ +	+ +			4
Back Bay	+ +	<b>•</b> •	•	•	4+2
South Station	• •	4 4	•		4+2
Total Travel Time	107' 77'	42'	52'	47'	

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Providence Local	Stoughton Local	Amtrak Regional	Amtrak Acela	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
Wickford Jct.	•		_	<u> </u>	1
TF Green	•		T	T	1
Providence	• •		•	•	2+2
Pawtucket	• •				2
S. Attleboro	+ +				2
Attleboro	• •				2
Mansfield	+ +				2
Sharon	+ +				2
Stoughton		• •			2
Canton Center		<b>•</b> •			2
Canton Jct.		• •			2
Route 128	+ +	<b>•</b> •	•	•	4+2
Hyde Park		• •			2
Ruggles	+ +	• •			4
Back Bay	<b>+</b> +	<b>† †</b>	•	•	4+2
South Station	4 4	4 4	•	•	4+2
Total Travel Time	107' 77'	42'	52'	47'	•

Providence Existing Station

Pawtucket Proposed New Station

Route 128 Existing Inner Core Station

Hourly Service

Amtrak Service

# Fall River/New Bedford Line

### PEAK HOUR (REPEATING)

	,		
TYPE OF SERVICE	Fall River Local	New Bedford Local	TOTAL PEAK
FREQUENCY (Min.)	Every 90 Min.	Every 90 Min.	HOUR TRAINS
Fall River	•		0-1
Freetown	•		0-1
New Bedford		•	0-1
North New Bedford		•	0-1
East Taunton	•	•	1-2
Middleborough	•	•	1-2
Bridgewater	•	•	1-2
Campello	•	•	1-2
Brockton	•	•	1-2
Montello	•	•	1-2
Holbrook/Randolph	•	•	1-2
Braintree	•	•	1-2
Quincy Center			0
JFK/UMass	•	•	1-2
South Station	•	6	1-2
Total Travel Time	88'	86'	

#### **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

		,		
	TYPE OF SERVICE	Fall River Local	New Bedford Local	TOTAL OFF-PEAK
	FREQUENCY (Min.)	Varied	Varied	HOUR TRAINS
<b>^</b>	Fall River	•		0-1
	Freetown	•		0-1
	New Bedford		•	0-1
	North New Bedford		•	0-1
	East Taunton	•	•	0-1
	Middleborough	•	•	0-1
	Bridgewater	•	•	0-1
	Campello	•	•	0-1
	Brockton	•	•	0-1
	Montello	•	•	0-1
	Holbrook/Randolph	•	•	0-1
	Braintree	•	•	0-1
	Quincy Center			0
	JFK/UMass			0
	South Station	•	•	0-1
•	Total Travel Time	90'	88'	

Station Stop

Brockton Existing Station

New Bedford Proposed New Station

Approx. Hourly Service

Periodic Service

# Kingston/Plymouth Line

# PEAK HOUR (REPEATING)

•		
TYPE OF SERVICE	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 45 Min.	HOUR TRAINS
Plymouth		0
Kingston	•	1-2
Halifax	•	1-2
Hanson	•	1-2
Whitman	•	1-2
Abington	•	1-2
South Weymouth	•	1-2
Braintree	•	1-2
Quincy Center		0
JFK/UMass	•	1-2
South Station		1-2
Total Travel Time	58'	

# **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 120 Min.	HOUR TRAINS
Plymouth	•*	0-1
Kingston	•*	0-1
Halifax	•	1
Hanson	•	1
Whitman	•	1
Abington	•	1
South Weymouth	•	0-1
Braintree	•	0-1
Quincy Center		0
JFK/UMass		0
South Station		0-1
Total Travel Time	59'	

Approximately half of trains stop at Kingston and half of trains stop at Plymouth during off-peak periods. Some trains stop at both stations.

**BI-DIRECTIONAL SERVICE** 

Station Stop

Kingston Existing Station

Approx. Hourly Service

Approx. Bi-Hourly Service

#### **Greenbush Line**

# PEAK HOUR (REPEATING)

•	<u> </u>	
TYPE OF SERVICE	Local	TOTAL PEAK
FREQUENCY (Min.)	Every 45 Min.	HOUR TRAINS
Greenbush	•	1-2
North Scituate	•	1-2
Cohasset	•	1-2
Nantasket Jct.	•	1-2
West Hingham	•	1-2
East Weymouth	•	1-2
Weymouth Landing/ East Braintree		1-2
Quincy Center		1-2
JFK/UMass	•*	0-1
South Station		1-2
Total Travel Time	59'	

## **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE	Local	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 120 Min.	HOUR TRAINS
Greenbush	•	0-1
North Scituate	•	0-1
Cohasset	•	0-1
Nantasket Jct.	•	0-1
West Hingham	•	0-1
East Weymouth	•	0-1
Weymouth Landing/ East Braintree	•	0-1
Quincy Center	•	0-1
JFK/UMass		0
South Station		0-1
Total Travel Time	59'	

Approximately half of trains stop at JFK/UMass during peak period.

Station Stop

Greenbush Existing Station

Approx. Hourly Service

Approx. Bi-Hourly Service

# Alternative 5

# Newburyport/Rockport Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Rockport Local	•	Newburyport Local	Newburyport Branch	Urban Rail	TOTAL PEAK HOUR TRAINS	
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 30 Min.	110011111111111111111111111111111111111	
Rockport	•	•				2	1
Gloucester	•	· •				2	
West Gloucester	•	•				2	
Manchester	•	•				2	
Beverly Farms	•	•				2	
Prides Crossing	•	•				2	
Montserrat	•	•				2	
Newburyport			•	•		2	Ę
Rowley			•	•		2	100
lpswich			•	•		2	BI-DIDECTIONAL SEDVICE
Hamilton/Wenham			•	•		2	F
North Beverly			•	•		2	1 2
Beverly	•	•	•	•	• •	4	
Salem	•		•		• •	4	
Swampscott	•		•		• •	4	
Lynn	•		•		• •	4	
River Works	•		•		• •	4	
Wonderland	•		•		• •	4	
Chelsea	•		•		• •	4	
North Station	•		•		• •	4	1
Total Travel Time	85'	43'	74'	33'	35'		
							4

#### OFF-PEAK HOUR (REPEATING)

		(			
	TYPE OF SERVICE	Rockport Local	Newburyport Local	Urban Rail	TOTAL OFF-PEAK
	FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 30 Min.	HOUR TRAINS
<b>†</b>	Rockport	•			1
	Gloucester	•			1
	West Gloucester	•			1
	Manchester	•			1
	Beverly Farms	•			1
	Prides Crossing	•			1
	Montserrat	•			1
<u> </u>	Newburyport		•		1
Z K	Rowley		•		1
Ă.	Ipswich		•		1
5	Hamilton/Wenham		•		1
BI-DIRECTIONAL SERVICE	North Beverly		•		1
7	Beverly	•	•	• •	4
	Salem	•	•	• •	4
	Swampscott	•	•	• •	4
	Lynn	•	•	• •	4
	River Works	•	•	• •	4
	Wonderland	•	•	• •	4
	Chelsea	•	•	• •	4
$\downarrow$	North Station		•	• •	4
	Total Travel Time	85'	74'	35'	

Station Stop

Newburyport Existing Station

Salem Existing Inner Core Station

Wonderland Proposed New Inner Core Station

Hourly Service
Hourly EMU Service

## Haverhill Line

#### PEAK HOUR (REPEATING)

· ·	/	<del></del>		1
TYPE OF SERVICE	Local	Urban Rail	TOTAL PEAK	
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS	
Haverhill	• •		2	<b>†</b>
Bradford	<b>*</b> *		2	
Lawrence	+ +		2	
Andover	<b>+</b> +		2	
Ballardvale	<b>+</b> +		2	"
North Wilmington	<b>†</b> †		2	BI-DIBECTIONAL SERVICE
<i>I-93</i>	<b>+</b> +	• •	4	5
Reading	+ +	• •	4	
Wakefield	+ +	• •	4	[
Greenwood	• •	• •	4	
Melrose Highlands	+ +	• •	4	
Melrose Cedar Park	+ +	• •	4	
Wyoming Hill	+ +	• •	4	
Malden Center	+ +	• •	4	
North Station	• •	6 6	4	
Total Travel Time	68'	34'		

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	Local	Urban Rail	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 30 Min.	HOUR TRAINS
Haverhill	•			1
Bradford	•			1
Lawrence	•			1
Andover	•			1
Ballardvale	•			1
North Wilmington	•			1
<i>I-93</i>	•	•	• •	4
Reading	•	•	• •	4
Wakefield	•	•	• •	4
Greenwood	•	•	• •	4
Melrose Highlands	•	•	• •	4
Melrose Cedar Park	•	•	• •	4
Wyoming Hill	•	•	• •	4
Malden Center	•	•	• •	4
North Station				4
Total Travel Time	68'	37'	34'	•

	Station Stop
Lawrence	Existing Station
Reading	<b>Existing Inner Core Station</b>
<i>I-93</i>	Proposed New Inner Core Station
	Hourly Service
	Hourly EMU Service

## **Lowell Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Local	Urban Rail	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS
Lowell	• •		2
North Billerica	• •		2
Wilmington	<b>+</b> +		2
Anderson/Woburn	• •	• •	4
Mishawum	<b>*</b> *	• •	4
Winchester Center	• •	• •	4
Wedgemere	<b>+</b> +	• •	4
West Medford	• •	• •	4
North Station	4 4	• •	4
Total Travel Time	49'	23'	

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE FREQUENCY (Min.)	Local Every 60 Min.	Local Every 60 Min.	Urban Rail	TOTAL OFF-PEAK HOUR TRAINS
Lowell	•			1
North Billerica	•			1
Wilmington	•			1
Anderson/Woburn	•	•	• •	4
Mishawum	•	•	• •	4
Winchester Center	•	•	• •	4
Wedgemere	•	•	• •	4
West Medford	•	•	• •	4
North Station		J.	• •	4
Total Travel Time	49'	27'	23'	

•	Station Stop
Lowell	Existing Station
Anderson/Woburn	<b>Existing Inner Core Station</b>
	Hourly Service
	Hourly EMU Service

# Fitchburg Line

PEAK HOUR (	(REPEATING)	١
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TYPE OF SERVICE	Zonal Express	Local	Local	Urban Rail	Grand Junction Shuttle	TOTAL PEAK	
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	Every 60 Min.	Every 30 Min.	Every 15 Min.	HOUR TRAINS	
Wachusett	•	•				2	1
Fitchburg	•	· •				2	
N. Leominster	•	•				2	
Shirley	•	•				2	
Ayer	•	•				2	
Littleton/495	•	•	•			3	
S. Acton		•	•			2	
W. Concord		•	•			2	<u>u</u>
Concord		•	•			2	ZEB
Lincoln		•	•			2	4
Silver Hill		•	•			2	Į.
Hastings		•	•			2	BI-DI BECTIONAL SERVICE
Kendal Green		•	•			2	2
I-95		•	•	• •		4	
Brandeis/Roberts		•	•	• •		4	
Waltham		•	•	• •		4	
Waverly		•	•	• •		4	
Belmont		•	•	• •		4	
Porter Sq.	•	•	•	• •		5	
West Station						4	
Kendall						4	
North Station	•	•	•	• •		9	Į Į
Total Travel Time	83'	103'	58'	27'	20'		

OFF-PEAK HOUR	(REPEATING)
TYPE OF CERVICE	

	TYPE OF SERVICE FREQUENCY (Min.)	Local Every 60 Min.	Local Every 60 Min.	Urban Rail Every 30 Min.	Grand Junction Shuttle  Every 15 Min.	TOTAL OFF-PEAK HOUR TRAINS
	Wachusett			<b>→</b>	<del>*</del>	1
	Fitchburg	I				1
	N. Leominster	I				1
	Shirley	I				1
	Ayer	I				1
	Littleton/495	I				1
	S. Acton	I				1
	W. Concord	I				1
		Ţ				
	Concord	Ţ				1
	Lincoln	Ţ				1
	Silver Hill	•				1
	Hastings	•				1
	Kendal Green	•				1
	I-95	•	•	• •		4
	Brandeis/Roberts	•	•	• •		4
	Waltham	•	•	• •		4
	Waverly	•	•	• •		4
	Belmont	•	•	• •		4
	Porter Sq.	•	•	• •		4
	West Station					4
	Kendall					4
ļ	North Station		4			8
	Total Travel Time	103'	31'	27'	20'	

Littleton/495 Existing Station Waltham Existing Inner Core Station Proposed New Inner Core Station Hourly Service Hourly EMU Service

### **Worcester Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Express	Local	Urban Rail	TOTAL PEAK
FREQUENCY (Min.)	Every 60 Min.	Every 30 Min.	Every 30 Min.	HOUR TRAINS
Worcester	•	7 7		3
Grafton		• •		2
Westborough		<b>+</b> +		2
Southborough		+ +		2
Ashland		<b>+</b> +		2
Framingham	•	<b>+</b> +		3
West Natick		<b>+</b> +		2
Natick Center		• •		2
Wellesley Square		<b>+</b> +		2
Wellesley Hills		• •		2
Wellesley Farms		• •		2
Riverside		• •	• •	4
Auburndale		<b>+</b> +	• •	4
W. Newton		• •	• •	4
Newtonville		+ +	• •	4
Boston Landing		• •	• •	4
West Station		<b>+</b> +	• •	4
Lansdowne	•	+ +	• •	5
Back Bay	•	+ +	• •	5
South Station	•		• •	5
Total Travel Time	70'	101'	30'	

#### OFF-PEAK HOUR (REPEATING)

	TYPE OF SERVICE FREQUENCY (Min.)	Express Every 60 Min.	Local Every 30 Min.	Urban Rail Every 30 Min.	TOTAL OFF-PEAK HOUR TRAINS
<b>*</b> *	Worcester		<del></del>	<del></del>	3
	Grafton	T	-I		2
			ŢŢ		
	Westborough				2
	Southborough		• •		2
	Ashland		• •		2
	Framingham	•	• •		3
	West Natick		• •		2
Ę	Natick Center		• •		2
SERV	Wellesley Square		<b>+</b> +		2
BI-DIRECTIONAL SERVICE	Wellesley Hills		• •		2
틷	Wellesley Farms		<b>+</b> +		2
JIREC	Riverside		• •	• •	4
품	Auburndale		• •	• •	4
	W. Newton		• •	• •	4
	Newtonville		<b>* *</b>	• •	4
	Boston Landing		• •	• •	4
	West Station		• •	• •	4
	Lansdowne	•	• •	• •	5
	Back Bay	•	+ +	• •	5
↓ ↓	South Station	•	<u> </u>	6 6	5
	Total Travel Time	70'	101'	30'	

Station Stop
Framingham Existing Station
Lansdowne Existing Inner Core Station
West Station Proposed New Inner Core Station
Hourly Service

Hourly EMU Service

### Needham Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE		Urba	n Rail		TOTAL PEAK
FREQUENCY (Min.)	-	Every	15 Min.	<b></b>	HOUR TRAINS
Needham Heights	•	•	•	•	4
Needham Center	•	•	•		4
Needham Junction		•	•		4
Hersey			•		4
West Roxbury		•	•		4
Highland			•		4
Bellevue		•	•		4
Roslindale Village			•		4
Forest Hills		•	•		4
Ruggles			•		4
Back Bay	•	•	•	•	4
South Station					4
Total Travel Time		3	7'		

**BI-DIRECTIONAL SERVICE** 

	OFF-PEAK HOUR	REPEATING)				
	TYPE OF SERVICE	Urban Rail	TOTAL OFF-PEAK			
	FREQUENCY (Min.)	Every 15 Min.	HOUR TRAINS			
<b>↑</b>	Needham Heights	9 9 9 9	4			
	Needham Center		4			
	Needham Junction		4			
	Hersey		4			
	West Roxbury	+ + + +	4			
	Highland		4			
	Bellevue		4			
	Roslindale Village		4			
	Forest Hills		4			
	Ruggles		4			
	Back Bay	+ + + +	4			
•	South Station	• • • •	4			
	Total Travel Time	37'				

Station Stop

West Roxbury Existing Inner Core Station

Hourly EMU Service

### Franklin Line

## PEAK HOUR (REPEATING)

TYPE OF SERVICE FREQUENCY (Min.)	Local  Every 30 Min.	TOTAL PEAK HOUR TRAINS
Forge Park/495	• •	2
Franklin	• •	2
Norfolk	• •	2
Walpole	• •	2
Plimptonville	*	0★
Windsor Gardens	• •	2
Norwood Central	• •	2
Norwood Depot	• •	2
Islington	• •	2
Dedham Corp Ctr	• •	2
Endicott	• •	2
Readville	• •	2
Ruggles	• •	2
Back Bay	• •	2
South Station	• •	2
Total Travel Time	61'	

## **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE FREQUENCY (Min.)	<b>Local</b> Every 60 Min.	TOTAL OFF-PEAK HOUR TRAINS
Forge Park/495	Every 60 IVIIII.	1
	I	·
Franklin	•	1
Norfolk	•	1
Walpole	•	1
Plimptonville		0
Windsor Gardens	•	1
Norwood Central	•	1
Norwood Depot	•	1
Islington	•	1
Dedham Corp Ctr	•	1
Endicott	•	1
Readville	•	1
Ruggles	•	1
Back Bay	•	1
South Station		1
Total Travel Time	61'	

★ One train per day stops at Plimptonville.

Station Stop

Norwood Central Existing Station

Hourly Service

### **Fairmount Line**

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE FREQUENCY (Min.)	<b>←</b>		n Rail 15 Min.	<b></b>	TOTAL PEAK HOUR TRAINS	
Readville	•	•	•	•	4	1
Fairmount	•			•	4	<u>ا</u> ا
Blue Hill Ave.	•			•	4	SERVICE
Morton St.	•			•	4	
Talbot Ave.	•			•	4	BI-DIRECTIONAL
Four Corners/Geneva	•			•	4	
Uphams Corner	•			•	4	
Newmarket	•			•	4	<del>-</del>
South Station					4	
Total Travel Time		2	5'			l

### **OFF-PEAK HOUR (REPEATING)**

	TYPE OF SERVICE FREQUENCY (Min.)		<b>Urban R</b> Every 15 M		<b>→</b>	TOTAL OFF-PEAK HOUR TRAINS
	Readville	•	•	•	•	4
	Fairmount					4
	Blue Hill Ave.				•	4
	Morton St.					4
	Talbot Ave.				•	4
	Four Corners/Geneva					4
	Uphams Corner					4
	Newmarket					4
,	South Station					4
	Total Travel Time		25'			

Station Stop

Talbot Ave. Existing Inner Core Station

Hourly EMU Service

# Providence/Stoughton Line

#### PEAK HOUR (REPEATING)

TYPE OF SERVICE	Providence Local	South Coast Rail Full Build	Amtrak Regional	Amtrak Acela	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 60 Min. Every 60 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
Wickford Jct.	•		A	<u> </u>	1
TF Green	•		ſ	Î	1
Providence	• •		•	•	2+2
Pawtucket	• •				2
S. Attleboro	+ +	Via Fall River/New Bedford Line	•		2
Attleboro					2
Mansfield	+ +				2
Sharon					2
Stoughton		•			1
Canton Center		•			1
Canton Jct.		•			1
Route 128		• •	•	•	4+2
Hyde Park		•			1
Ruggles	+ +	• •			4
Back Bay	+ +	• •	•	•	4+2
South Station		6 6	•	•	4+2
Total Travel Time	96' 68'	35' 20'	52'	47'	

#### OFF-PEAK HOUR (REPEATING)

TYPE OF SERVICE	Providence Local	South Coast Rail Full Build	Amtrak Regional	Amtrak Acela	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 30 Min.	Every 60 Min. Every 60 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
Wickford Jct.	P		<u> </u>	<u> </u>	1
TF Green	•		T	Ţ	1
Providence	• •		•	•	2+2
Pawtucket	• •				2
S. Attleboro	• •	Via Fall River/New Bedford Line			2
Attleboro	• •				2
Mansfield	• •				2
Sharon	• •				2
Stoughton		•			1
Canton Center		<b>4</b>			1
Canton Jct.		<b>4</b> •			1
Route 128	• •	<b>4 6</b>	•	•	4+2
Hyde Park		•			1
Ruggles	• •	4 4			4
Back Bay	• •	4 4	•	•	4+2
South Station		4 6	•	•	4+2
Total Travel Time	96' 68'	35' 20'	52'	47'	

•	Station Stop
Providence	Existing Station
Pawtucket	Proposed New Station
Route 128	Existing Inner Core Station
	Hourly Electrified Service
	Hourly Electrified Interline Service
	Amtrak Service

## Fall River/New Bedford Line

#### PEAK HOUR (REPEATING)

TEXTLE TOOK (ILE E	,	<u> </u>		
TYPE OF SERVICE	Fall River	New Bedford	TOTAL PEAK	
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	HOUR TRAINS	
Battleship Cove	•		1	<b>†</b>
Fall River	•		1	
Freetown	•		1	
New Bedford		•	1	
North New Bedford		•	1	
East Taunton	•	•	2	
Taunton	•		1	빌
Raynham Place	•		1	SERV
Easton Village	•		1	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
North Easton	•	•	2	É
Stoughton		•	1	BI-DIRECTIONAL SERVICE
Canton Center		•	1	
Canton Jct.		•	1	
Route 128	•	•	2	
Hyde Park		•	2	
Ruggles	•	•	2	
Back Bay	•	•	2	
South Station		•	2	]
Total Travel Time	77'	73'		]

#### **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE FREQUENCY (Min.)	Fall River Every 60 Min.	New Bedford  Every 60 Min.	TOTAL OFF-PEAK HOUR TRAINS
	Every 60 iviiii.	Every oo wiii.	
Battleship Cove	<b>_</b>		1
Fall River	•		1
Freetown	•		1
New Bedford		•	1
North New Bedford		•	1
East Taunton	•	•	2
Taunton	•		1
Raynham Place	•		1
Easton Village	•		1
North Easton	•	•	2
Stoughton		•	1
Canton Center		•	1
Canton Jct.		•	1
Route 128	•	•	2
Hyde Park		•	2
Ruggles	•	•	2
Back Bay	•	•	2
South Station		•	2
Total Travel Time	77'	73'	

Station Stop

Stoughton Existing Station

North New Bedford Proposed New Station

Route 128 Existing Inner Core Station

Hourly Electrified Service

# Middleborough Line

## **PEAK HOUR (REPEATING)**

TYPE OF SERVICE FREQUENCY (Min.)	Local  Every 30 Min.	TOTAL PEAK HOUR TRAINS
Middleborough	• •	2
Bridgewater	+ +	2
Campello	• •	2
Brockton	+ +	2
Montello	+ +	2
Holbrook/Randolph	+ +	2
Braintree	+ +	2
Quincy Center	<b>†</b> †	2
JFK/UMass	• •	2
South Station	<u> </u>	2
Total Travel Time	60'	

# **OFF-PEAK HOUR (REPEATING)**

**BI-DIRECTIONAL SERVICE** 

TYPE OF SERVICE FREQUENCY (Min.)	<b>Local</b> Every 60 Min.	TOTAL OFF-PEAK HOUR TRAINS
Middleborough	P	1
Bridgewater	•	1
Campello	•	1
Brockton	•	1
Montello	•	1
Holbrook/Randolph	•	1
Braintree	•	1
Quincy Center	•	1
JFK/UMass	•	1
South Station		1
Total Travel Time	60'	

**Station Stop** 

Bridgewater **Existing Station** 

Middleborough **Proposed New Station** 

**Hourly Service** 

## Kingston/Plymouth Line

### **PEAK HOUR (REPEATING)**

TEXICITOON (INELE	, (111 <b>13</b> )	
TYPE OF SERVICE	Local Interline	TOTAL PEAK
FREQUENCY (Min.)	Every 30 Min.	HOUR TRAINS
Plymouth		0
Kingston	• •	2
Halifax	• •	2
Hanson	• •	2
Whitman	• •	2
Abington	• •	2
South Weymouth	• •	2
Braintree	• •	2
	: :	0
	Via Greenbush Line	0
	: :	0
Total Travel Time	64'*	

## **OFF-PEAK HOUR (REPEATING)**

TYPE OF SERVICE FREQUENCY (Min.)	Local Interline  Every 60 Min.	TOTAL OFF-PEAK HOUR TRAINS
Plymouth		0
Kingston	•	1
Halifax	•	1
Hanson	•	1
Whitman	•	1
Abington	•	1
South Weymouth	•	1
Braintree	•	1
Quincy Center	:	1
JFK/UMass	Via Greenbush Line	1
South Station	:	1
Total Travel Time	64'*	

<sup>\*</sup>Note: Travel times shown are to/from Boston in the peak direction. Travel times are longer in the reverse peak direction.

**BI-DIRECTIONAL SERVICE** 

Station Stop
 Kingston
 Existing Station
 Hourly Service
 Hourly Interline Service

#### **Greenbush Line**

## **PEAK HOUR (REPEATING)**

TYPE OF SERVICE FREQUENCY (Min.)	Local Interline  Every 30 Min.	TOTAL PEAK HOUR TRAINS
Greenbush	Ψ Ψ	2
North Scituate	• •	2
Cohasset	•	2
Nantasket Jct.	• •	2
West Hingham	• •	2
East Weymouth	• •	2
Weymouth Landing/ East Braintree	+ +	2
Braintree	• •	2
	: :	0
	Via Kingston Line	0
	: :	0
Total Travel Time	68'*	

#### **OFF-PEAK HOUR (REPEATING)**

	(1121 27 111110)	
TYPE OF SERVICE	Local Interline	TOTAL OFF-PEAK
FREQUENCY (Min.)	Every 60 Min.	HOUR TRAINS
Greenbush	•	1
North Scituate	•	1
Cohasset	•	1
Nantasket Jct.	•	1
West Hingham	•	1
East Weymouth	•	1
Weymouth Landing/ East Braintree		1
Braintree		1
Quincy Center	:	1
JFK/UMass	Via Kingston Line	1
South Station	:	1
Total Travel Time	68'*	

<sup>\*</sup>Note: Travel times shown are to/from Boston in the peak direction. Travel times are longer in the reverse peak direction.

**BI-DIRECTIONAL SERVICE** 

Station Stop

Greenbush Existing Station

Hourly Service
Hourly Interline Service

## Alternative 6

# Newburyport/Rockport Line

#### ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE	Rockport Local	Newburyport Local	Urban	Rail	TOTAL	
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 30	) Min.	HOURLY TRAINS	
Rockport	• •			·	2	†
Gloucester					2	П
West Gloucester	+ +				2	Ш
Manchester					2	П
Beverly Farms	+ +				2	Ш
Prides Crossing					0	П
Montserrat	+ +				2	Ш
Newburyport		• •			2	П
Rowley		• •			2	Ш
lpswich		• •			2	П
Hamilton/Wenham		• •			2	Ш
North Beverly		• •			2	П
Beverly	+ +	• •	• •	• •	8	Ш
Salem		<b>†</b> •	•	•	8	П
Swampscott	+ +	<b>•</b> •	• •	•	8	Ш
Lynn	• •	<b>†</b> †	• •	• •	8	П
River Works	+ +	<b>•</b> •	• •	• •	8	Ш
Wonderland	• •	<b>†</b> †	• •	• •	8	П
Chelsea	+ +	<b>•</b> •	• •	• •	8	Ш
North Station	• •	6 6			4	П
State/Haymarket			• •	• •	4	Ш
South Station (NSRL)			• •	• •	4	
			Via Readville	Via Needham Line		U
Total Travel Time	68'	62'	35' (to State/F	daymarkot)	1	ľ

Station Stop
Gloucester Existing Non-Inner Core Key Station
Newburyport Existing Station
Salem Existing Inner Core Station
Wonderland Proposed New Inner Core Station
Hourly Electrified Service (EMU)
Hourly Urban Rail Service (EMU)

### **Haverhill Line**

#### ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE	Zonal Express	Local	Urban Rail	TOTAL
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 30 Min.	HOURLY TRAINS
Haverhill	• •			4
Bradford	• •	• •		4
Lawrence	• •	• •		4
Andover	• •	• •		4
Ballardvale	• •	• •		4
North Wilmington	• •	<b>*</b> •		4
<i>I-93</i>	• •	<b>b b</b>	• •	6
Reading			• •	4
Wakefield		• •	• •	4
Greenwood		• •	• •	4
Melrose Highlands		• •	• •	4
Melrose Cedar Park			• •	4
Wyoming Hill		• •	• •	4
Malden Center			• •	4
North Station				4
State/Haymarket			• •	2
South Station (NSRL)			• •	2
			Via Needham Line	
Total Travel Time	53'	64'	34' (to State/Haymarket)	

Station Stop

Lawrence Existing Non-Inner Core Key Station

Andover Existing Station

Reading Existing Inner Core Station

I-93 Proposed New Inner Core Station

Hourly Electrified Service (EMU)

Hourly Urban Rail Service (EMU)

#### **Lowell Line**

#### ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE	Zonal Express	Local	Urban Rail	TOTAL
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 30 Min.	HOURLY TRAINS
Lowell	• •	• •		4
North Billerica	<b>† †</b>	• •		4
Wilmington	<b>♦ ♦</b>	• •		4
Anderson/Woburn	<b>•</b> •	• •	• •	6
Mishawum		<b>+</b> +	• •	4
Winchester Center		• •	• •	4
Wedgemere		• •	• •	4
West Medford		• •	• •	4
North Station	<b>J J</b>			4
State/Haymarket			• •	2
South Station (NSRL)			• •	2
			Via Worcester Line	
Total Travel Time	37'	43'	23' (to State/Haymarket)	

Station Stop

Lowell Existing Non-Inner Core Key Station

Wilmington Existing Station

Anderson/Woburn Existing Inner Core Station

State/Haymarket Proposed New Inner Core Station

Hourly Electrified Service (EMU)

Hourly Urban Rail Service (EMU)

# Fitchburg Line

#### ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE	Zonal Express	Local	Urban Rail	Grand Junction Shuttle	TOTAL PEAK HOUR TRAINS
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 30 Min.	Every 15 Min.	
Wachusett	φ φ	9 9			4
Fitchburg	<b>†</b> †	+ +			4
N. Leominster	<b>†</b> †	<b>+</b> +			4
Shirley	<b>†</b> †	+ +			4
Ayer	<b>†</b> †	+ +			4
Littleton/495	<b>†</b> †				4
S. Acton	<b>†</b> †	<b>•</b> •			4
W. Concord	<b>† †</b>	<b>*</b> •			4
Concord	<b>† †</b>	<b>†</b> †			4
Lincoln	<b>†</b> †	+ +			4
Silver Hill					0
Hastings					0
Kendal Green					0
<i>I-95</i>	<b>†</b> †	+ +	• •		6
Brandeis/Roberts		<b>†</b> †	• •		4
Waltham		<b>+</b> +	<b>,</b>		4
Waverly		<b>†</b> †	• •		4
Belmont		+ +	<b>,</b>		4
Porter Sq.	<b>† †</b>	<b>+</b> +	• •		6
West Station				* * * *	4
Kendall				+ + + +	4
North Station	<b>b b</b>	• •			8
State/Haymarket			• •		2
South Station (NSRL)			• •		2
			Via Readville		
Total Travel Time	85'	78'	27' (to State/Haymarket)	20'	

Station Stop

Fitchburg Existing Non-Inner Core Key Station
Concord Existing Station
Waltham Existing Inner Core Station

1-95 Proposed New Inner Core Station
Hourly Electrified Service (EMU)
Hourly Urban Rail Service (EMU)

### MBTA Rail Vision | FINAL REPORT February 2020

### **Worcester Line**

#### ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE	Zonal Express	Local	Urban Rail	TOTAL PEAK	
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	Every 30 Min.	HOUR TRAINS	
Worcester	• •	• •		4	<b>†</b>
Grafton	• •			4	
Westborough	• •	• •		4	
Southborough	• •	• •		4	
Ashland	• •	• •		4	
Framingham	<b>•</b> •	+ +		4	
West Natick	<b>†</b> †	+ +		4	
Natick Center	<b>†</b> †	+ +		4	
Wellesley Square	<b>†</b> †	+ +		4	
Wellesley Hills	<b>†</b> †	+ +		4	
Wellesley Farms	<b>†</b> †	+ +		4	
Riverside		+ +	• •	4	
Auburndale		<b>+</b> +	• •	4	
W. Newton		+ +	• •	4	
Newtonville		• •	• •	4	
Boston Landing		• •	• •	4	
West Station		+ +	• •	4	
Lansdowne	<b>†</b> †	+ +	• •	6	
Back Bay	<b>♦ ♦</b>	+ +	• •	6	
South Station	4 4	<b>b b</b>		4	ļ
South Station (NSRL)			<b>•</b> •	2	
State/Haymarket			• •	2	
			Via Lowell Line		
Total Travel Time	78'	87'	29' (to S. Station)		

•	Station Stop
Worcester	Existing Non-Inner Core Key Station
Southborough	Existing Station
Lansdowne	Existing Inner Core Station
West Station	Proposed New Inner Core Station
	Hourly Electrified Service (EMU)
	Hourly Urban Rail Service (EMU)

### Needham Line

#### **ALL DAY EACH HOUR (REPEATING)**

TYPE OF SERVICE	Urba	ın Rail	TOTAL PEAK	
FREQUENCY (Min.)	Every	15 Min.	HOUR TRAINS	
Needham Heights	• •	• •	4	<b>↑</b> ′
Needham Center	• •	• •	4	
Needham Junction	• •	• •	4	
Hersey	• •	• •	4	ICE
West Roxbury	• •	• •	4	BI-DIRECTIONAL SERVICE
Highland	• •	• •	4	JA I
Bellevue	• •	• •	4	
Roslindale Village	• •	• •	4	OIREC
Forest Hills	• •	• •	4	] <del> </del>
Ruggles	• •	• •	4	
Back Bay	• •	• •	4	
South Station			0	
South Station (NSRL)	• •	• •	4	
State/Haymarket	• •	• •	4	
	Via Newburyport/ Rockport Line	Via Haverhill Line		
Total Travel Time	37' (to S	. Station)		

Station Stop
 West Roxbury Existing Inner Core Station
 State/Haymarket Proposed New Inner Core Station
 Hourly Urban Rail Service (EMU)

### Franklin Line

#### ALL DAY EACH HOUR (REPEATING)

	HOOK (KEI EATHVO)			
TYPE OF SERVICE	Local Frankhklin Interline	Local Foxboro Interline	TOTAL PEAK	
FREQUENCY (Min.)	Every 30 Min.	Every 30 Min.	HOUR TRAINS	
Forge Park/495	• •		2	1
Franklin	• •		2	
Norfolk	<b>•</b> •		2	
Foxboro		• •	2	
Walpole	• •	• •	4	
Plimptonville			0	빌
Windsor Gardens	<b>4 4</b>	• •	4	BI-DIRECTIONAL SERVICE
Norwood Central	• •	• •	4	¥
Norwood Depot	• •	• •	4	Į į
Islington	• •	• •	4	I SEC
Dedham Corp Ctr	<b>4 4</b>	• •	4	급
Endicott	• •	• •	4	
Readville	• •	• •	4	
Ruggles			0	
Back Bay	Via Fairmount Line	Via Fairmount Line	0	
South Station	• •	• •	0	
South Station (NSRL	)		0	
State/Haymarket			0	
Total Travel Time	73'	60'		

Station Stop

Norwood Central Key Existing Station

State/Haymarket Key Proposed New Station

Islington Existing Station

Hourly Electrified Service (EMU)

Hourly Electrified Interline Urban Rail Service (EMU)

#### **Fairmount Line**

# ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE		Local I	nterline		TOTAL PEAK	
FREQUENCY (Min.)	←	Every	15 Min.	<b></b>	HOUR TRAINS	
	•	Via <sup>-</sup> Fran	klin Line	÷		<b> </b>
Readville					4	
Fairmount	•			•	4	ICE
Blue Hill Ave.	•			•	4	SERVICE
Morton St.	•			•	4	NAL
Talbot Ave.	•			•	4	
Four Corners/Geneva	•			•	4	BI-DIRECTIONAL
Uphams Corner	•	•		•	4	B-[
Newmarket	•				4	
South Station					4	$[\ \downarrow\ ]$
Total Travel Time		3	i0'			' '

Station Stop
 Talbot Ave. Existing Inner Core Station
 Hourly Electrified Interline Service (EMU)
 Hourly Urban Rail Service (EMU)

# Providence/Stoughton Line

#### ALL DAY EACH HOUR (REPEATING)

Total Travel Time	98' 69'	26' 39'	20' (to S. Station)	52'	47'	
			Via Newburyport/ Rockport Line Via Fitchburg Line			
State/Haymarket			+ + + +	•	•	4+2
South Station (NSRL)			+ + + +			4
South Station	1 1	1 1				4
Back Bay	• •	<b>† †</b>		•	•	8+2
Ruggles	+ +	+ +	+ + + +			8
Hyde Park	• •	4 4				8
Readville	+ +	4 4	• • • •			8
Route 128		4 4		•	•	4+2
Canton Jct.						1
Canton Center						1
Stoughton		i i				1
Sharon						2
Mansfield	1 1					2
Attleboro						2
S. Attleboro	1 1	Via Fall River/New				2
Pawtucket						2
Providence	I .					2+2
TF Green	I			T	T T	1
Wickford Jct.		<del></del>	<del></del>			1
REQUENCY (Min.)	Every 60 MinEvery 60 Min.	Every 30 Min.	Every 15 Min.	Every 60 Minutes	Every 60 Minutes	HOUR TRAINS
TYPE OF SERVICE	Local onal Express	South Coast Rail Full Build	Readville Urban Rail	Amtrak Regional	Amtrak Acela	TOTAL PEAK



Station Stop

## Fall River/New Bedford Line

#### ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE	Fall River Local	New Bedford Local	TOTAL PEAK	
FREQUENCY (Min.)	Every 60 Min.	Every 60 Min.	HOUR TRAINS	
Battleship Cove	P		1	<b>†</b> †
Fall River	<b>þ</b>		1	
Freetown	•		1	
New Bedford		•	1	
North New Bedford		•	1	
East Taunton	•	•	2	
Taunton	•		1	
Raynham Place	<b>†</b>		1	3I-DIRECTIONAL SERVICE
Easton Village	•		1	I SE
North Easton	•	•	2	NO N
Stoughton		•	1	EGI
Canton Center		•	1	- PR
Canton Jct.		•	1	<u> </u>
Route 128	•	•	2	
Readville	•	•	2	
Hyde Park	•	•	2	
Ruggles	•	•	2	
Back Bay	•	•	2	
South Station			2	$ \downarrow \downarrow$
Total Travel Time	83'	77'		



# Middleborough Line

# ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE FREQUENCY (Min.)	Local Every 30 Min	TOTAL PEAK HOUR TRAINS	
Middleborough	•	2	1 1
Bridgewater	•	2	
Campello	•	2	JGE J
Brockton	•	2	SER\
Montello	•	2	MAL
Holbrook/Randolph	•	2	BI-DIRECTIONAL SERVICE
Braintree	•	2	OIREC
Quincy Center	•	2	BI-C
JFK/UMass	•	2	
South Station		2	
Total Travel Time	55'		

Station Stop

**Brockton** Key Existing Station

Bridgewater Existing Station

Middleborough Proposed New Station

# Kingston/Plymouth Line

# ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE FREQUENCY (Min.)	Local  Every 30 Min.	TOTAL PEAK HOUR TRAINS	
Plymouth		0	<b>†</b> †
Kingston	• •	2	
Halifax	• •	2	
Hanson	• •	2	SERVICE
Whitman	• •	2	\L SE
Abington	• •	2	BI-DIRECTIONAL
South Weymouth	• •	2	ECT
Braintree		2	
Quincy Center	• •	2	
JFK/UMass	• •	2	
South Station		2	$ \downarrow \downarrow$
Total Travel Time	52'		]

Station Stop

Kingston Key Existing Station

Whitman Existing Station

### **Greenbush Line**

# ALL DAY EACH HOUR (REPEATING)

TYPE OF SERVICE	Local	TOTAL PEAK	
FREQUENCY (Min.)	Every 30 Min.	HOUR TRAINS	
Greenbush	• •	2	<b>†</b> †
North Scituate	• •	2	
Cohasset	• •	2	
Nantasket Jct.	• •	2	RVIC
West Hingham	• •	2	\L SE
East Weymouth	• •	2	NO N
Weymouth Landing/ East Braintree	+ +	2	BI-DIRECTIONAL SERVICE
Quincy Center	• •	2	
JFK/UMass	• •	2	
South Station		2	$[\ \downarrow\ ]$
Total Travel Time	52'		

Station Stop

Greenbush Existing Station