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MetroWest Regional Transit Authority

Transit Asset Management (TAM) Plan

Revised 9/2018



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Introduction

About MWRTA

MetroWest Regional Transit Authority (MWRTA) is a public transit agency based in the MetroWest Region of Massachusetts and is currently comprised of the following 16 member communities: Ashland, Dover, Framingham, Holliston, Hopedale, Hopkinton, Hudson, Marlborough, Milford, Natick, Sherborn, Southborough, Sudbury, Wayland, Wellesley, and Weston. The MWRTA provides public bus transportation services on 15 Fixed Routes and 6 area



Shuttle Routes, with a variety of Paratransit (both ADA and Dial A Ride) Services. The Authority has partnered to provide service vehicles for area nonprofits, Councils On Aging (COA's), Employment Options, Framingham State University, and South Middlesex Opportunity Council (SMOC).

TAM Vision

Ensure that transportation investment decisions, for long-term planning and short-term funding, are oriented toward meeting established goals.

TAM and SGR Policy

MWRTA TAM Policy: The practice of procuring, operating, inspecting, maintaining, rehabilitating, and replacing transit capital assets to manage their performance, risks, and costs over their life cycles to provide safe, cost-effective, and reliable public transportation.

TAM Goals and/or Objectives

As a member of the Boston MPO, MWRTA is focused on fulfilling the goals developed under the Charting Progress to 2040¹ long range transportation plan for the Boston region. Goals are as follows:

1.Safety:	Transportation by all modes will be safe
2.System Preservation:	Maintain the transportation system
3.Capacity Management/Mobility	Use existing facility capacity more efficiently
	increase healthy transportation capacity
4.Clean Air/Clean Communities	Create an environmentally friendly transportation system
5.Transportation Equity	Provide comparable transportation access
	Service quality among communities, regardless of income level or minority population
6.Economic Vitality	Ensure our transportation network provides a strong foundation for economic vitality

¹ <http://www.ctps.org/lrtp>

Performance Targets and Measures

MWRTA utilizes MassDOT Useful life benchmarks for vehicles received under the mobility assistance program.

MWRTA targets are as follows:

Asset Category - Performance Measure	Asset Class	2019 Target
Age - % of revenue vehicles within a particular asset class that have met or exceeded their Useful Life Benchmark (ULB)	<i>AB - Articulated Bus</i>	
	<i>AO - Automobile</i>	0%
	<i>BR - Over-the-road Bus</i>	
	<i>BU - Bus</i>	
	<i>CU - Cutaway Bus</i>	0%
	<i>DB - Double Decked Bus</i>	
	<i>FB - Ferryboat</i>	
	<i>MB - Mini-bus</i>	
	<i>MV - Mini-van</i>	
	<i>RT - Rubber-tire Vintage Trolley</i>	
	<i>SB - School Bus</i>	
	<i>SV - Sport Utility Vehicle</i>	
	<i>TB - Trolleybus</i>	
	<i>VN - Van</i>	
	<i>Custom 1</i>	
<i>Custom 2</i>		
<i>Custom 3</i>		
Age - % of vehicles that have met or exceeded their Useful Life Benchmark (ULB)	<i>Non Revenue/Service Automobile</i>	50%
	<i>Steel Wheel Vehicles</i>	
	<i>Trucks and other Rubber Tire Vehicles</i>	
	<i>Custom 1</i>	
	<i>Custom 2</i>	
Condition - % of facilities with a condition rating below 3.0 on the FTA Transit Economic Requirements Model (TERM) Scale	<i>Administration</i>	
	<i>Maintenance</i>	
	<i>Parking Structures</i>	
	<i>Passenger Facilities</i>	
	<i>Custom 1</i>	0%
	<i>Custom 2</i>	
<i>Custom 3</i>		

Target Methodology:

MWRTA strives to have all vehicles and facilities in useful life and to maintain State of Good Repair. For non-revenue vehicles MWRTA takes into account usability of our existing assets in addition to the useful life benchmarks (ULB) established by FTA.

Roles and Responsibilities

Department/Individual	Role (Title and/or Description)
Jane Doe	Director of Asset Management
Eva Willens	Deputy Administrator
Daniel Fitch	Information Technology
Joy Glynn	Grants Manager

Capital Asset Inventory

As a requirement for the TAM Plan, MWRTA has collected an asset register for assets in the following categories: Revenue Vehicles, Equipment, and Facilities. The Executive Summary of conditions is found below, while the full listing of assets can be found in Appendix A.

Asset Category/Class	Total Number	Avg Age	Avg Mileage	Avg Value
Revenue Vehicles	98	3.6	76,511	\$59,741.17
<i>AB - Articulated Bus</i>	0	-	-	-
<i>AO - Automobile</i>	9	2.0	34,596	\$52,539.00
<i>BR - Over-the-road Bus</i>	0	-	-	-
<i>BU - Bus</i>	0	-	-	-
<i>CU - Cutaway Bus</i>	89	3.6	78,976	\$60,164.82
<i>DB - Double Decked Bus</i>	0	-	-	-
<i>FB - Ferryboat</i>	0	-	-	-
<i>MB - Mini-bus</i>	0	-	-	-
<i>MV - Mini-van</i>	0	-	-	-
<i>RT - Rubber-tire Vintage Trolley</i>	0	-	-	-
<i>SB - School Bus</i>	0	-	-	-
<i>SV - Sport Utility Vehicle</i>	0	-	-	-
<i>TB - Trolleybus</i>	0	-	-	-
<i>VN - Van</i>	0	-	-	-
<i>Custom 1</i>	0	-	-	-
<i>Custom 2</i>	0	-	-	-
<i>Custom 3</i>	0	-	-	-
Equipment	12	11.0	74,773	\$20,541.67

<i>Non Revenue/Service Automobile</i>	2	6.0	83,476	\$10,750.00
<i>Steel Wheel Vehicles</i>	0	-	-	-
<i>Trucks and other Rubber Tire Vehicles</i>	10	12.0	73,032	\$22,500.00
<i>Custom 1</i>	0	-	-	-
<i>Custom 2</i>	0	-	-	-
<i>Custom 3</i>	0	-	-	-
Facilities	1	6.0	N/A	\$19,765,239.00
<i>Administration</i>	0	-	N/A	-
<i>Maintenance</i>	0	-	N/A	-
<i>Parking Structures</i>	0	-	N/A	-
<i>Passenger Facilities</i>	0	-	N/A	-
<i>Custom 1</i>	1	6.0	N/A	\$19,765,239.00
<i>Custom 2</i>	0	-	N/A	-
<i>Custom 3</i>	0	-	N/A	-

Condition Assessment

As a requirement for the TAM Plan, MWRTA has conducted a condition assessment for assets in the following categories: Revenue Vehicles, Equipment, and Facilities. MWRTA followed FTA best practices and TERM score guidance in determining Facility Condition and utilized assigned ULB to determine the state of the fleet. The Executive Summary of conditions is found below, while the full listing of assets can be found in Appendix B.

Asset Category/Class	Count	Avg Age	Avg Mileage	Avg TERM Condition	Avg Value	% At or Past ULB
Revenue Vehicles	98	3.6	76,511	N/A	\$59,741.17	5.10%
<i>AB - Articulated Bus</i>	0	-	-	N/A	-	-
<i>AO - Automobile</i>	9	2.0	34,596	N/A	\$52,539.00	0.00%
<i>BR - Over-the-road Bus</i>	0	-	-	N/A	-	-
<i>BU - Bus</i>	0	-	-	N/A	-	-
<i>CU - Cutaway Bus</i>	89	3.6	78,976	N/A	\$60,164.82	5.62%
<i>DB - Double Decked Bus</i>	0	-	-	N/A	-	-
<i>FB - Ferryboat</i>	0	-	-	N/A	-	-
<i>MB - Mini-bus</i>	0	-	-	N/A	-	-
<i>MV - Mini-van</i>	0	-	-	N/A	-	-
<i>RT - Rubber-tire Vintage Trolley</i>	0	-	-	N/A	-	-
<i>SB - School Bus</i>	0	-	-	N/A	-	-
<i>SV - Sport Utility Vehicle</i>	0	-	-	N/A	-	-
<i>TB - Trolleybus</i>	0	-	-	N/A	-	-
<i>VN - Van</i>	0	-	-	N/A	-	-
<i>Custom 1</i>	0	-	-	N/A	-	-
<i>Custom 2</i>	0	-	-	N/A	-	-
<i>Custom 3</i>	0	-	-	N/A	-	-
Equipment	12	11.0	74,773	N/A	\$20,541.67	50.00%
<i>Non Revenue/Service Automobile</i>	2	6.0	83,476	N/A	\$10,750.00	50.00%
<i>Steel Wheel Vehicles</i>	0	-	-	N/A	-	-
<i>Trucks and other Rubber Tire Vehicles</i>	10	12.0	73,032	N/A	\$22,500.00	50.00%
<i>Custom 1</i>	0	-	-	N/A	-	-
<i>Custom 2</i>	0	-	-	N/A	-	-
<i>Custom 3</i>	0	-	-	N/A	-	-
Facilities	1	5.0	N/A	5.0	\$19,765,239.00	N/A
<i>Administration</i>	0	-	N/A	-	-	N/A
<i>Maintenance</i>	0	-	N/A	-	-	N/A
<i>Parking Structures</i>	0	-	N/A	-	-	N/A
<i>Passenger Facilities</i>	0	-	N/A	-	-	N/A
<i>Custom 1</i>	1	5.0	N/A	5.0	\$19,765,239.00	N/A
<i>Custom 2</i>	0	-	N/A	-	-	N/A
<i>Custom 3</i>	0	-	N/A	-	-	N/A



JOIN US
10th ANNUAL
CANCER TEST
SATURDAY
OCT. 14th
9:00 AM
12:00 PM
LUNCH PAUSE in the PARKING GARAGE
CRAFTS
KIDS PAPER GUILD
BINGO & BOARD GAMES
RUFFY & HAWK DOGS
REGISTER: WWW.LOCAL800.COM

Decision Support

Tools

The following processes and tools are in place to support investment decision making, including project selection and prioritization for MWRTA. MWRTA works with the Massachusetts Department of Transportation (MassDOT) and the Boston Area MPO to assist in determining priority levels for MWRTA projects as they fit into the region and state priorities and work closely with these organizations in developing regional and statewide plans.

Process/Tool	Brief Description
5 Year Capital Investment Plan (CIP)	Work along with MassDOT to secure funding for asset maintenance and replacement; set prioritization factors/indicators; assign scoring definitions and weights; determine prioritization index score.
Revenue Asset Data Base	SQL database tracking key data elements regarding asset inventory.
Facilities Maintenance Reports	MWRTA uses FTA published tools and guidance to maintain SGR for the facility; Administration and Facilities Director perform regular inspections of the facility and document deficiencies found and improvements/corrections made.
Vehicle Maintenance Management Tool	MWRTA uses Fleetio Software to track maintenance activities performed on each vehicle.

Investment Prioritization

Based on MWRTA financial resources, the MWRTA ranks capital projects or programs in order of priority and anticipated project year to maintain SGR. MWRTA gives consideration to SGR projects that pose an identified unacceptable safety risk. Estimation of funding levels from all available sources are taken into consideration for the investments the agency has direct capital responsibility for. Maintenance of accessible features and requirements concerning alteration of transportation facilities under 49 CFR 37 Transportation Services for Individuals with Disabilities (ADA).

Risk Management

The following risks have been identified by the organization, along with migration strategies to overcome these risks

Risk	Mitigation Strategy
Safety	<p>MWRTA values the need and understands the significance of risk management within its daily operations, and all associated potential risk liabilities. The safety of its employees, contractors, visitors, passengers and property are of the utmost importance. The Deputy Administrator has oversight of potential risk liability and is charged with identifying where the potential risk may be represented. All managers/supervisors are responsible for reporting to the Deputy Administrator any source of potential risk they may recognize in their respective departments and beyond.</p>
Areas of potential risk	<p>MWRTA's risk management policies and procedures encompass reviews of actual or potential areas of risk and or liability of employees, contractors, visitors, passengers, property loss or damages and other sources of legal liability. Annual meetings are scheduled with the Authority's insurance carrier to assess and discuss areas in which risk is either occurring or could possibly occur. This coordinated effort includes the Authority's insurance agent who acts as a liaison on the Authority's behalf to ensure that while necessary coverages and policies are adhered to, the Authority is not over burdened with unnecessary or unrealistic costs of coverage.</p>
Liability	<p>MWRTA relies on the professional advice of their contracted insurance agent, the insurance carrier and the experience of the Deputy Administrator in the assessment of procuring liability coverage insurance as well as other prudent and mandated coverages.</p>
Workplace Issues	<p>MWRTA participates and procures training programs (when necessary) for its employees in the areas of risk, including, but not limited to, falls, workplace hazards, workplace violence, diversity, fire drills and active shooter training and includes in all its contracts with service providers, mandated driver training, customer service and diversity training.</p>
Vehicles Accidents	<p>Vehicle incidents may have an impact on our spare ratio</p>
Vehicle Maintenance	<p>Scheduling of vehicle maintenance is coordinated by the Vehicle Maintenance Director to minimize impact on vehicle downtime</p>
Facilities Maintenance	<p>Scheduling of facilities maintenance is coordinated by the Facilities Maintenance Director to minimize impact on MWRTA operations downtime</p>
Loss of federal funds	<p>Facilities Maintenance, Vehicle Maintenance, Safety and Security Systems of federally funded assets depend on federal funds for capital</p>

Maintenance Strategy

MWRTA values existing capital resources and investments into the agency and understands the importance of maintaining these resources to ensure use to and exceeding the useful life of the asset. The following are regularly planned maintenance activities completed by the organization. In addition to the activities listed, MWRTA maintains a comprehensive Facility Maintenance Log documenting all facility repairs and enhancements along with comprehensive vehicle repair records.

Asset Category	Asset Class	Maintenance Activity	Frequency	Avg Duration (Hrs)	Cost
RevenueVehicles	CU - Cutaway Bus	Oil Change	4500-5500 miles	2.5 hours	\$188
RevenueVehicles	CU - Cutaway Bus	Brakes	15,000	3 hours	\$225
RevenueVehicles	CU - Cutaway Bus	Tires	20,000	1 hour (4 tires)	\$75
RevenueVehicles	CU - Cutaway Bus	Front End Suspension	40,000	5 hours	\$375
RevenueVehicles	CU - Cutaway Bus	Front End Alignment	Annual	1.2 hours	\$90
Facilities	Custom 1	Generator	Semi Annual	4 hours	\$2,000
Facilities	Custom 1	Boiler	Semi Annual	4 hours	\$2,000
Facilities	Custom 1	Fire Alarm / Security	Monthly	4 hours	\$300
Facilities	Custom 1	Elevator w/Phone Monitoring	Monthly	1 hour	\$3,000
Facilities	Custom 1	Waste Removal	Weekly	1 hour	\$175
RevenueVehicles	AO- Automobile	Oil Change	4500-5500 miles	2.5 hours	\$188
RevenueVehicles	AO- Automobile	Brakes	15,000	3 hours	\$225
RevenueVehicles	AO- Automobile	Tires	20,000	1 hour (4 tires)	\$75
RevenueVehicles	AO- Automobile	Front End Suspension	40,000	5 hours	\$375
RevenueVehicles	AO- Automobile	Front End Alignment	Annual	1.2 hours	\$90
Equipment	Trucks and other Rubber Tire Vehicles	Oil Change	4500-5500 miles	2.5 hours	\$188
Equipment	Trucks and other Rubber Tire Vehicles	Brakes	15,000	3 hours	\$225
Equipment	Trucks and other Rubber Tire Vehicles	Tires	20,000	1 hour (4 tires)	\$75
Equipment	Trucks and other Rubber Tire	Front End Suspension	40,000	5 hours	\$375

	Vehicles				
Equipment	Trucks and other Rubber Tire Vehicles	Front End Alignment	Annual	1.2 hours	\$90

Unplanned Maintenance Needs

MWRTA Facilities Director would review unplanned maintenance needs with Administrator and Deputy to discuss various repair options and costs.

Overhaul Strategy

Asset Category	Asset Class	Overhaul Strategy
RevenueVehicles	CU - Cutaway Bus	No Overhaul Strategy. Vehicles are replaced at end of useful life.
RevenueVehicles	VN - Van	No Overhaul Strategy. Vehicles are replaced at end of useful life.
Facilities	Custom 1	Continuous investments are made as part of MWRTA's capital plan to maintain state of good repair and make improvements where necessary.

Disposal Strategy

Asset Category	Asset Class	Disposal Strategy
RevenueVehicles	CU - Cutaway Bus	MWRTA rotates the fleet to be in compliance with State of Good Repair (SOGR); Administrator receives request for surplus; FTA approval is required for disposition of vehicles with a FMV over \$5,000.
RevenueVehicles	VN - Van	MWRTA rotates the fleet to be in compliance with State of Good Repair (SOGR); Administrator receives request for surplus; FTA approval is required for disposition of vehicles with a FMV over \$5,000.
Facilities	Custom 1	MWRTA does not anticipate a need to dispose of facility in the foreseeable future, given the current age and useful life remaining.

Acquisition and Renewal Strategy

Asset Category	Asset Class	Acquisition and Renewal Strategy
Revenue Vehicles	CU - Cutaway Bus	<p>MWRTA aims to replace 1/5 of the fleet per year so that there is a 5 year fleet turn over and so that we are distributing our replacements equally throughout each year. In an effort to reduced GHG and improve the air quality within the MetroWest Region, MWRTA is in year 2 of a 5 year plan to transition the fleet from gasoline to CNG buses. Our mission at the MWRTA Vehicle Maintenance Facility is to provide the best quality maintenance of all MWRTA vehicle equipment with the least amount of service interruption. All of our vehicle repairs will be of industry standards. We will strive for no road calls, and we will quickly respond to any and all needs of our vehicles and clients.</p>
Revenue Vehicles	VN - Van	<p>MWRTA aims to replace 1/5 of the fleet per year so that there is a 5 year fleet turn over and so that we are distributing our replacements equally throughout each year.</p>
Facilities	Custom 1	<p>Public transit requires a considerable investment in buildings, equipment, and machinery. The proper maintenance of facilities, machinery, and equipment is key to protecting the MWRTA investment and prolonging the useful life of the asset. The MWRTA Facilities Director regularly performs inventory and condition assessment of the facility; define service goals; identify critical assets; establish life cycle costs; develop funding strategy. Facilities Manager organizes and assigns responsibility for the MWRTA facility and equipment maintenance.</p> <ul style="list-style-type: none"> • Inspections and routine maintenance is performed regularly to ensure proper care and to maximize useful service life of MWRTA facilities and equipment; • MWRTA maintains adequate permanent records of maintenance and inspection activity for the MWRTA buildings and equipment; • Assets not under warranty are maintained in accordance with manufacturer’s recommendations; <p>The facility/equipment maintenance program identifies specific mission critical and safety items.</p>

Investment Prioritization

Proposed Investments

The following projects and programs have been identified for the FY19-FY21 Years. MWRTA constantly reviews investment priorities to ensure that they align with agency objectives and current research in the industry. MWRTA works closely with regional and statewide partners to ensure that projects line up with Regional Transportation Plans and Statewide Transportation Plans, along with MassDOT's Capital Improvement Plan. Please note that for revenue vehicles, vehicles awarded by the state are usually delivered in May or June of the fiscal year, so investments listed for a particular year are for revenue vehicles that will be brought online the following year.

2019	5310 MAP Replacement Vehicles	RevenueVehicles	CU - Cutaway Bus	\$1,815,700.00	High
2019	5310 MAP New Vehicles	RevenueVehicles	CU - Cutaway Bus	\$216,300.00	Medium
2019	New Transit Vehicles	RevenueVehicles	AO - Automobile	\$120,000.00	Medium
2019	Facility Renovations	Facilities	Custom 1	\$1,000,000.00	Medium
2020	5310 MAP Replacement Vehicles	RevenueVehicles	CU - Cutaway Bus	\$1,519,456.00	High
2020	Facility Renovations	Facilities	Custom 1	\$1,000,000.00	Medium
2021	5310 MAP Replacement Vehicles	RevenueVehicles	CU - Cutaway Bus	\$1,081,694.00	High
2021	New Transit Vehicles	RevenueVehicles	AO - Automobile	\$254,616.00	High

Capital Investment Activity Schedules.

The following documents provide comprehensive work plans and schedules relating to MWRTA Capital Investment Plan and are included as attachments to this document.

Document Name	File Extension
MassDOT CIP FY19-FY23	PDF
Boston MPO TIP FY19-FY23	PDF
MWRTA CIP FY19-FY23	PDF

Fleet Replacement Module

This tables calculates the required purchase for each fleet per year. Update the inflation rate, if necessary, and click 'Calculate' to update the total expenditure.

<u>Total in Current Year \$</u>	\$837,190.00	\$1,029,177.00	\$214,200.00	\$2,569,533.00	\$280,610.00
<u>Inflation Rate</u>	3.0%	3.0%	3.0%	3.0%	3.0%
<u>Compounded Inflation</u>	1.03	1.03	1.03	1.03	1.03
<u>Total in Year of Expenditure \$</u>	\$862,305.70	\$1,060,052.31	\$220,626.00	\$2,646,618.99	\$289,028.30

	2019		2020		2021		2022		2023	
Fleet Type (Year/Make/Model)	Number	Cost in 2018 \$								
2011 STR										
Starcraft		\$277,00								
ALLSTAR	5	0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
2013 SHI										
Shepard										
Brothers Inc		\$166,91								
Metrolite	3	4.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
2014 ELK										
Elkhart										
Coach				\$116,23						
Elkhart	0	\$0.00	2	8.00	0	\$0.00	0	\$0.00	0	\$0.00
2013 SHI										
Shepard										
Brothers Inc		\$111,27								
Phoenix	2	6.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
2014 SHI										
Shepard										
Brothers Inc				\$738,58						
Phoenix	0	\$0.00	13	2.00	0	\$0.00	0	\$0.00	0	\$0.00
2016 SHI										
Shepard										
Brothers Inc		\$60,400						\$1,268,4		
Phoenix	1	.00	0	\$0.00	0	\$0.00	21	00.00	0	\$0.00
2014 ELK										
Elkhart				\$174,35						
Coach ECII	0	\$0.00	3	7.00	0	\$0.00	0	\$0.00	0	\$0.00
2016 MVN-Mobility Ventures	0	\$0.00	0	\$0.00	0	\$0.00	9	\$472,851.00	0	\$0.00

MV1

2011 STR Starcraft PRODIGY	4	\$221,60 0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00
2013 ELK Elkhart Coach						\$214,20 0.00				
2014 STR Starcraft ALLSTAR	0	\$0.00	0	\$0.00	3	\$0.00	0	\$0.00	0	\$0.00
2016 ELK Elkhart Coach ECII	0	\$0.00	0	\$0.00	0	\$0.00	13	\$828,282 .00	0	\$0.00
2017 SHI Shepard Brothers Inc	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	5	\$280,61 0.00
2017 STR Starcraft ALLSTAR	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00

Appendix A – Asset Register

Asset Category	Asset Class	Asset Name	Make	Model	Count	ID/Serial No.	Asset Owner	Acquisition Year	Vehicle Mileage	Replacement Cost/Value
Revenue Vehicles	CU - Cutaway Bus	12 Passenger Cutaway	STR Starcraft	ALLSTAR	5	49454	MWR TA	2011	81,742	\$55,400.00
Revenue Vehicles	CU - Cutaway Bus	8 Passenger Cutaway	SHI Shepard Brothers Inc	MetroLite	2	330885	MWR TA	2013	32,269	\$55,638.00
Revenue Vehicles	CU - Cutaway Bus	12 Passenger Cutaway	ELK Elkhart Coach	Elkhart	2	341784	MWR TA	2014	71,054	\$58,119.00
Revenue Vehicles	CU - Cutaway Bus	8 Passenger Cutaway	SHI Shepard Brothers Inc	Phoenix	2	341785	MWR TA	2013	105,219	\$55,638.00
Revenue Vehicles	CU - Cutaway Bus	8 Passenger Cutaway	SHI Shepard Brothers Inc	Phoenix	13	341786	MWR TA	2014	88,683	\$56,814.00
Revenue Vehicles	CU - Cutaway Bus	12 Passenger Cutaway	SHI Shepard Brothers Inc	Phoenix	8	346715	MWR TA	2016	59,664	\$60,400.00
Revenue Vehicles	CU - Cutaway Bus	12 Passenger Cutaway	SHI Shepard Brothers Inc	Phoenix	8	347567	MWR TA	2016	69,226	\$60,400.00
Revenue Vehicles	CU - Cutaway Bus	8 Passenger Cutaway	SHI Shepard Brothers Inc	MetroLite	1	347568	MWR TA	2013	101,575	\$55,638.00
Revenue Vehicles	CU - Cutaway Bus	12 Passenger Cutaway	ELK Elkhart Coach	ECII	3	352716	MWR TA	2014	39,554	\$58,119.00
Revenue Vehicles	AO - Automobile	MV-1 **MODEL YEAR 2014	MVN-Mobility Ventures	MV1	9	352717	MWR TA	2016	34,596	\$52,539.00
Revenue Vehicles	CU - Cutaway Bus	12 Passenger Cutaway	STR Starcraft	PRODIGY	4	49475	MWR TA	2011	75,447	\$55,400.00
Revenue Vehicles	CU - Cutaway Bus	16 Passenger Cutaway	ELK Elkhart Coach	Elkhart	3	329192	MWR TA	2013	181,321	\$71,400.00

Revenue Vehicles	CU - Cutaway Bus	16 Passenger Cutaway	STR Starcraft	ALLSTAR	13	341783	MWR TA	2014	141,594	\$63,714.00
Revenue Vehicles	CU - Cutaway Bus	16 Passenger Cutaway	ELK Elkhart Coach	ECII	6	346661	MWR TA	2016	111,060	\$66,310.00
Revenue Vehicles	CU - Cutaway Bus	12 Passenger Cutaway	SHI Shepard Brothers Inc	Phoenix	5	34662	MWR TA	2016	38,035	\$60,400.00
Revenue Vehicles	CU - Cutaway Bus	16 Passenger Cutaway	ELK Elkhart Coach	ECII	2	352504	MWR TA	2016	81,913	\$66,310.00
Revenue Vehicles	CU - Cutaway Bus	8 Passenger Cutaway	SHI Shepard Brothers Inc	Phoenix	5	MWR TA N1	MWR TA	2017	29,968	\$56,122.00
Revenue Vehicles	CU - Cutaway Bus	16 Passenger Cutaway	STR Starcraft	ALLSTAR	7	MWR TA N2	MWR TA	2017	34,270	\$66,980.00
Facilities	Custom 1	Blandin Ave Facility			1		MWR TA	2012	N/A	\$19,765,239
Equipment	Non Revenue/Service Automobile	09 Sedan	Ford	Crown Victoria	1	1208	MWR TA	2009	156,838	\$1,500.00
Equipment	Non Revenue/Service Automobile	Ford Explorer	Ford	Explorer	1	1209	MWR TA	2015	10,113	\$20,000.00
Equipment	Trucks and other Rubber Tire Vehicles	Ford Pickup	Ford	F350	1	1210	MWR TA	2015	7,117	\$30,000.00
Equipment	Trucks and other Rubber Tire Vehicles	Ford Pickup CR	Ford	F250	1	1211	MWR TA	2002	111,660	\$8,000.00
Equipment	Trucks and other Rubber Tire Vehicles	Utility Truck	Ford	F250	1	1212	MWR TA	2011	121,242	\$15,000.00
Equipment	Trucks and other Rubber Tire Vehicles	Sander	Ford	F350	1	1213	MWR TA	2005	68,978	\$12,000.00
Equipment	Trucks and other Rubber Tire	Explorer 06	Ford	Explorer	1	1214	MWR TA	2006	126,977	\$7,500.00

	Vehicles									
Equipment	Trucks and other Rubber Tire Vehicles	Maint SUV	Ford	Explorer	1	1215	MWR TA	2002	111,660	\$2,500.00
Equipment	Trucks and other Rubber Tire Vehicles	Deere	Deere	544GH	1	1216	MWR TA	1994	5,248	\$20,000.00
Equipment	Trucks and other Rubber Tire Vehicles	Loader	Hyundai	740TM-9a	1	1217	MWR TA	2014	500	\$80,000.00
Equipment	Trucks and other Rubber Tire Vehicles	Tow Truck	Freightliner	FL 60	1	1218	MWR TA	2000	68,898	\$30,000.00
Equipment	Trucks and other Rubber Tire Vehicles	Skid Steer	CAT	226B	1	1219	MWR TA	2011	108,039	\$20,000.00

Appendix B1- Revenue Vehicles Condition Assessment

Revenue Vehicles Condition Table

***Age is the surrogate performance measure for condition as determined by the FTA.*

Asset Category	Asset Class	Asset Name	Count	ID/Serial No.	Age (Yrs)	Vehicle Mileage	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark
RevenueVehicles	AO - Automobile	MV-1 **MODEL YEAR 2014	9	352717	2	34,596	\$52,539.00	5	No
RevenueVehicles	CU - Cutaway Bus	12 Passenger Cutaway	5	49454	7	81,742	\$55,400.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	12 Passenger Cutaway	4	49475	7	75,447	\$55,400.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	12 Passenger Cutaway	2	341784	4	71,054	\$58,119.00	5	No
RevenueVehicles	CU - Cutaway Bus	12 Passenger Cutaway	3	352716	4	39,554	\$58,119.00	5	No
RevenueVehicles	CU - Cutaway Bus	12 Passenger Cutaway	8	346715	2	59,664	\$60,400.00	5	No
RevenueVehicles	CU - Cutaway Bus	12 Passenger Cutaway	8	347567	2	69,226	\$60,400.00	5	No
RevenueVehicles	CU - Cutaway Bus	12 Passenger Cutaway	5	34662	2	38,035	\$60,400.00	5	No
RevenueVehicles	CU - Cutaway Bus	16 Passenger Cutaway	3	329192	5	181,321	\$71,400.00	7	No
RevenueVehicles	CU - Cutaway Bus	16 Passenger Cutaway	13	341783	4	141,594	\$63,714.00	7	No
RevenueVehicles	CU - Cutaway Bus	16 Passenger Cutaway	6	346661	2	111,060	\$66,310.00	7	No
RevenueVehicles	CU - Cutaway Bus	16 Passenger Cutaway	2	352504	2	81,913	\$66,310.00	7	No
RevenueVehicles	CU - Cutaway	16 Passenger	7	MWRTAN	1	34,270	\$66,980.00	7	No

les	Bus	Cutaway		2					
RevenueVehicles	CU - Cutaway Bus	8 Passenger Cutaway	2	330885	5	32,269	\$55,638.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	8 Passenger Cutaway	2	341785	5	105,219	\$55,638.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	8 Passenger Cutaway	1	347568	5	101,575	\$55,638.00	5	Yes
RevenueVehicles	CU - Cutaway Bus	8 Passenger Cutaway	13	341786	4	88,683	\$56,814.00	5	No
RevenueVehicles	CU - Cutaway Bus	8 Passenger Cutaway	5	MWRTAN 1	1	29,968	\$56,122.00	5	No

Appendix B2- Equipment Condition

Asset Class	Asset Name	Count	ID/Serial No.	Age (Yrs)	Vehicle Mileage	Replacement Cost/Value	Useful Life Benchmark (Yrs)	Past Useful Life Benchmark
Non Revenue/Service Automobile	09 Sedan	1	1208	9	156,838	\$1,500.00	5	Yes
Non Revenue/Service Automobile	Ford Explorer	1	1209	3	10,113	\$20,000.00	8	No
Trucks and other Rubber Tire Vehicles	Ford Pickup	1	1210	3	7,117	\$30,000.00	8	No
Trucks and other Rubber Tire Vehicles	Ford Pickup CR	1	1211	16	111,660	\$8,000.00	8	Yes
Trucks and other Rubber Tire Vehicles	Utility Truck	1	1212	7	121,242	\$15,000.00	8	No
Trucks and other Rubber Tire Vehicles	Sander	1	1213	13	68,978	\$12,000.00	14	No
Trucks and other Rubber Tire Vehicles	Explorer 06	1	1214	12	126,977	\$7,500.00	8	Yes
Trucks and other Rubber Tire Vehicles	Maint SUV	1	1215	16	111,660	\$2,500.00	8	Yes
Trucks and other Rubber Tire Vehicles	Deere	1	1216	24	5,248	\$20,000.00	14	Yes
Trucks and other Rubber Tire Vehicles	Loader	1	1217	4	500	\$80,000.00	14	No
Trucks and other Rubber Tire Vehicles	Tow Truck	1	1218	18	68,898	\$30,000.00	14	Yes
Trucks and other Rubber Tire Vehicles	Skid Steer	1	1219	7	108,039	\$20,000.00	14	No

Appendix B3- Facility Condition Assessment

Asset Category	Asset Class	Asset Name	Count	ID/Serial No.	Age (Yrs)	TERM Scale Condition	Replacement Cost/Value
Facilities	Custom 1	Blandin Ave Facility	1		5	5	\$19,765,239.00

Referenced Documents

The documents below are referenced in this document as of the date of this publication.

Boston MPO TIP FFY19-FFY23





2019-2023

Capital Investment Plan Update

MWRTA CIP Entries FY19- FY23

Project #	Organization	Project Name	Project Description	Program	Included in 18-21 CIP	Modification	Previous RTA Score	Previous MassDOT Score	Needs Score?
BCG0007085	MetroWest Regional Transit	NON FIXED ROUTE ADA PARA SERV	Non Fixed Route ADA Para Service	N/A	No				N/A
BCG0007087	MetroWest Regional Transit	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES	Customer amenities, facility improvements, tools, equipment, technology	RTA: Facility and Vehicle Maintenance	Yes	N/A			N/A
BCG0007088	MetroWest Regional Transit	Mobility Management	Mobility Management Enhancements/Improvements; IT; Call Center; Travel Training Enhancements/Improvement; Fare Collection Transition	RTA: Facility and Vehicle Maintenance	Yes	Previous total cost was \$31,250 (with 80/20 split)			Yes
BCG0007148	MetroWest Regional Transit	TERMINAL, INTERMODAL (TRANSIT) - BLANDIN - Solar Project	Solar Project - Applied for 5339(b) 50% match w/RTACAP FY18 \$222,222 = 90/10 match; if grant isn't awarded will only need the remaining \$1,250,000. Total project cost over two years is \$2,000,000.	RTA: Facility and System Modernization	No	N/A			Yes
BCG0007150	MetroWest Regional Transit	PLANNING - OTHER ACTIVITIES	MetroWest Bus Rapid Transit Feasibility Study - will discuss with the Boston MPO + coordinate w/CTPS	RTA: Facility and System Modernization	No	N/A			N/A
BCG0007151	MetroWest Regional Transit	BUY REPLACEMENT- CAPITOL BUS (3)	Transit Revenue Vehicles (3 @ \$40k each); separate from CTGP; replace EDL vehicles w/Transit Revenue Vehicles CNG Vehicle Project - Applied for 5339(b) \$500k match w/Toll Credits \$88k = 85/15 match	RTA: Vehicle Replacement	No	N/A			N/A
BCG0007314	MetroWest Regional Transit	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES - CNG Vehicle Project	CNG Vehicle Project - Applied for 5339(b) \$500k match w/Toll Credits \$88k = 85/15 match	RTA: Facility and System Modernization	No	N/A			Yes
BCG0007315	MetroWest Regional Transit	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES - Ashland Lot	Ashland Lot Enhancements / Improvements	RTA: Facility and System Modernization	No	N/A			N/A
BCG0009639	MetroWest Regional Transit	TERMINAL, INTERMODAL (TRANSIT) - BLANDIN - Front Entrance	Blandin Enhancements/Improvements; Customer Friendly Amenities - Front Entrance	RTA: Facility and Vehicle Maintenance	No	N/A			N/A
BCG0007085	MetroWest Regional Transit	TERMINAL, INTERMODAL (TRANSIT) - Framingham Commuter Rail Station (FCRS)	Framingham Intermodal Customer Friendly Enhancements/Improvements - Applied for 5339(b) \$400k match w/Toll Credits \$100k = 80/20 match	RTA: Facility and Vehicle Maintenance	Yes	Previous total cost was \$187,500 (with 80/20 split)			N/A
BCG0007322	MetroWest Regional Transit	TERMINAL, INTERMODAL (TRANSIT) - BLANDIN - Building	Blandin Building - Roof - Enhancements/Improvements	RTA: Facility and Vehicle Maintenance	No	N/A			Yes
BCG0007089	MetroWest Regional Transit	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES	Acquisition of Bus Support Equip/Facilities; Additional Bus Accessories	RTA: Facility and Vehicle Maintenance	Yes	Previous total cost was \$310,519 (with 80/20 split)			N/A
BCG0007090	MetroWest Regional Transit	Mobility Management	Mobility Management, IT; Call Center; Travel Training Enhancements/Improvements; Fare Collection Transition	RTA: Facility and Vehicle Maintenance	Yes	Previous total cost was \$31,250 (with 80/20 split)			Yes
BCG0007091	MetroWest Regional Transit	NON FIXED ROUTE ADA PARA SERV	Non Fixed Route ADA Para Service	N/A	No				N/A
BCG0007092	MetroWest Regional Transit	TERMINAL, INTERMODAL (TRANSIT) - BLANDIN	Blandin Hub Enhancements/Improvements	RTA: Facility and Vehicle Maintenance	Yes	Previous total cost was \$187,500 (with 80/20 split)			Yes
BCG0007320	MetroWest Regional Transit	TERMINAL, INTERMODAL (TRANSIT) - Framingham Commuter Rail Station (FCRS)	Framingham Intermodal Enhancements/Improvements	RTA: Facility and Vehicle Maintenance	No	N/A			Yes
BCG0007321	MetroWest Regional Transit	TERMINAL, INTERMODAL (TRANSIT) - Framingham Commuter Rail Station (FCRS)	Alternative Energy Project (Solar, Electric, CNG, Hydrogen)	RTA: Facility and System Modernization	No	N/A			Yes
BCG0007093	MetroWest Regional Transit	NON FIXED ROUTE ADA PARA SERV	Non Fixed Route ADA Para Service	N/A	No				N/A
BCG0007094	MetroWest Regional Transit	TERMINAL, INTERMODAL (TRANSIT) - BLANDIN	12/3/2015 update CIP Project: State of Good Repair / Notes: Blandin Avenue Call Center Technology Updates	RTA: Facility and Vehicle Maintenance	Yes	Previous total cost was \$187,500 (with 80/20 split)			Yes
BCG0007095	MetroWest Regional Transit	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES	Acquisition of Bus Support Equip/Facilities; Fare Collection Equipment	RTA: Facility and Vehicle Maintenance	Yes	Previous total cost was \$310,519 (with 80/20 split)			N/A
BCG0007096	MetroWest Regional Transit	Mobility Management	12/3/2015 update CIP Project: State of Good Repair / Notes: Blandin Avenue Call Center Technology Updates	RTA: Facility and Vehicle Maintenance	Yes	Previous total cost was \$31,250 (with 80/20 split)			Yes
BCG0007318	MetroWest Regional Transit	TERMINAL, INTERMODAL (TRANSIT) - Framingham Commuter Rail Station (FCRS)	Framingham Intermodal Enhancements/Improvements	RTA: Facility and Vehicle Maintenance	No	N/A			Yes
BCG0007319	MetroWest Regional Transit	- Parking/Elevator	FCRS Parking/Elevator Improvements	RTA: Facility and System Modernization	No	N/A			Yes
BCG0007097	MetroWest Regional Transit	NON FIXED ROUTE ADA PARA SERV	Non Fixed Route ADA Para Service	N/A	No				N/A
BCG0007098	MetroWest Regional Transit	ACQUISITION OF BUS SUPPORT EQUIP/FACILITIES	Acquisition of Bus Support Equip/Facilities; Additional Bus Accessories	RTA: Facility and Vehicle Maintenance	Yes	Previous total cost was \$310,519 (with 80/20 split)			N/A