Maryland Department of Transportation
The Secretary's Office

Lawrence J. Hogan, Jr.
Governor

Boyd K. Rutherford
Lt. Governor

Pete K. Rahn
Acting Secretary

February 18, 2015

Mr. Gregory Murrill
Division Administrator
Attn: Dr. Kwame Arhin
Federal Highway Administration
10 South Howard Street
Suite 2450
Baltimore, MD 21201

Mr. Reginald Lovelace
Regional Administrator
Attn: Ms. Kathleen Zubrzycki
Federal Transit Administration
1760 Market Street. Suite 500
Philadelphia, PA 19103

RE: Amendment to the Fiscal Year (FY) 2014 Maryland Statewide Transportation Improvement Program (STIP) in the Baltimore Region to amend Metro Railcar and Signaling System Replacement. MDOT Control # 14-49

Dear Mr. Murrill and Mr. Lovelace:

The Maryland Department of Transportation (MDOT) hereby amends the FY 2014 Maryland STIP to reflect updates to the 2014-2017 Baltimore Regional Transportation Board's (BRTB) Transportation Improvement Program (TIP) for Metro Railcar and Signaling System Replacement. Attached please find supporting documentation including the notification letter documenting the January 27, 2015, BRTB meeting's approval of this Amendment. The description of this Amendment is shown below:

- Metro Railcar and Signaling System Replacement – adds this project to the STIP by obligating $54.5 million in Federal Section 5307 funds in FY 2015 through FY2017, and $3.6 million in federal CMAQ funds in FY 2017. In addition to the $14.539 million in State matching funds, the State will be adding $228.9 million in State funding for fully fund this project.

The TIP continues to be fiscally constrained as the funding is unused funds from other de-obligated or inactive projects. The matching funds for the project have been made available due to increase State funding through the Transportation Infrastructure Investment Act of 2013.

The Maryland Statewide Transportation Improvement Program continues to be fiscally constrained. If you have any questions or need additional information, please do not hesitate to contact me at 410-865-1295, toll-free at 888-713-1414 or via email at mnixon@mdot.state.md.us. Thank you for your assistance.

Sincerely,

Michael W. Nixon

Michael W. Nixon, Manager
Office of Planning and Capital Programming

Attachment

cc: Ms. Holly Arnold, Grants Administrator, Capital Programming, MTA
Mr. Tyson Byrne, Regional Planner, Office of Planning and Capital Programming, MDOT
Ms. Lyn Erickson, Manager Federal Liaison, Office of Planning and Capital Programming, MDOT
Ms. Terri Lippa, Program Administrator, Capital Programming, MTA
Ms. Heather Murphy, Deputy Director, Office of Planning and Capital Programming, MDOT

2014 MARYLAND STATEWIDE TIP

MDOT STIP # 40-1403-64

SUMMARY TABLE

Project	Amendment Criteria (A/B/C/D)	Conformity Status	Environmental Status	Current Funding Level Federal	State	Total	Net Change Federal	State	Total
	A	Exempt		0.0	0.0	0.0	58,155.0	14,539.0	72,694.0

Administration	Area/MPO
MTA	BRTB

Description The Metro Railcar fleet consists of 90 cars (45 semi-permanent married pairs). Based on the 30 year design life, the Metro cars are due for replacement. The replacement of the railcar fleet will provide passengers with enhanced comfort, conveniences and ensure improved reliability. The replacement of Metro Signaling system consists of a double tracked train controlled signaling system that is 15 miles long. The Metro train control system was installed in three phases and the oldest section is currently 30 years old. The Automatic Train Protection system is currently experiencing reliability issues due to its age and parts are obsolescence thus increasing maintainability issues across its various systems and sub-systems. The replacement of the Signal System with modern, reliable equipment will enhance passenger comfort, ensure better reliability and offer improved safety. (State has committed and additional $228.9 million)

Justification The replacement of Metro Vehicles and the Signal system with modern and reliable equipment will enhance passenger comfort, ensure better reliability and offer improved safety.

INDIVIDUAL REQUEST FORM

STIP/TIP Amendment Criteria

- [x] A Adds new individual projects to the current STIP/TIP.
- [ ] B Increase/decrease, scope change, advance, delay, or phase change.
- [ ] C Removes or deletes individual listed project from the STIP/TIP.
- [ ] D Other:

Office of Planning
Maryland Department of Transportation

	Funding	Previous	FY2014	FY2015	FY2016	FY2017	FY2018	Total
Current	Total	-	-	-	-	-	-	-
	Federal	-	-	-	-	-	-	-
	State	-	-	-	-	-	-	-
Proposed	Total	-	-	2,000	39,564	31,130	-	72,694
	Federal	-	-	1,600	31,651	24,904	-	58,155
	State	-	-	400	7,913	6,226	-	14,539
Net Change	Total	-	-	2,000	39,564	31,130	-	72,694
	Federal	-	-	1,600	31,651	24,904	-	58,155
	State	-	-	400	7,913	6,226	-	14,539

PHASE DETAIL (All dollars are displayed in $1,000's)

Fund Source 1

Current PHASE	Previous Federal	Previous State	FY2014 Federal	FY2014 State	FY2015 Federal	FY2015 State	FY2016 Federal	FY2016 State	FY2017 Federal	FY2017 State	FY2018 Federal	FY2018 State	TOTAL Federal	TOTAL State	TOTAL Total
PP													-	-	-
PE													-	-	-
ROW													-	-	-
CON													-	-	-
OTH													-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Source: 5307 Fed%: 0% State%: 0%

Proposed PHASE	Previous Federal	Previous State	FY2014 Federal	FY2014 State	FY2015 Federal	FY2015 State	FY2016 Federal	FY2016 State	FY2017 Federal	FY2017 State	FY2018 Federal	FY2018 State	TOTAL Federal	TOTAL State	TOTAL Total
PP													-	-	-
PE													-	-	-
ROW													-	-	-
CON					1,600	400	28,010	7,003	24,904	6,226			54,514	13,629	68,143
OTH	-	-	-	-	-	-	-	-					-	-	-
TOTAL	-	-	-	-	1,600	400	28,010	7,003	24,904	6,226	-	-	54,514	13,629	68,143

Source: 5307 Fed%: 80% State%: 20%

Change PHASE	Previous Federal	Previous State	FY2014 Federal	FY2014 State	FY2015 Federal	FY2015 State	FY2016 Federal	FY2016 State	FY2017 Federal	FY2017 State	FY2018 Federal	FY2018 State	TOTAL Federal	TOTAL State	TOTAL Total
PP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CON	-	-	-	-	1,600	400	28,010	7,003	24,904	6,226	-	-	54,514	13,629	68,143
OTH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	1,600	400	28,010	7,003	24,904	6,226	-	-	54,514	13,629	68,143

Source: 5307 Fed%: 80% State%: 20%

Fund Source 2

Current	Previous		FY2014		FY2015		FY2016		FY2017		FY2018		TOTAL		
PHASE	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Total
PP													-	-	-
PE													-	-	-
ROW													-	-	-
CON													-	-	-
OTH													-	-	-
TOTAL	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Source: CMAQ Fed%: 0% State%: 0%

Proposed	Previous		FY2014		FY2015		FY2016		FY2017		FY2018		TOTAL		
PHASE	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Total
PP													-	-	-
PE													-	-	-
ROW													-	-	-
CON							3,641	910					3,641	910	4,551
OTH													-	-	-
TOTAL	-	-	-	-	-	-	3,641	910	-	-	-	-	3,641	910	4,551

Source: CMAQ Fed%: 80% State%: 20%

			80%		20%										
Change	Previous		FY2014		FY2015		FY2016		FY2017		FY2018		TOTAL		
PHASE	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Federal	State	Total
PP	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
PE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ROW	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
CON	-	-	-	-	-	-	3,641	910	-	-	-	-	3,641	910	4,551
OTH	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TOTAL	-	-	-	-	-	-	3,641	910	-	-	-	-	3,641	910	4,551

Source: CMAQ Fed%: 80% State%: 20%

Baltimore Metropolitan Council

Offices @ McHenry Row
1500 Whetstone Way, Suite 300
Baltimore, MD 21230-4767

Telephone: (410) 732-0500
Fax: (410) 732-8248
www.baltometro.org

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FEB 02 2015
OFFICE OF PLANNING & CAPITAL PROGRAMMING

Anne Arundel County
Baltimore City
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Carroll County
Harford County
Howard County

January 28, 2015

Mr. Don Halligan
Office of Planning & Capital Programming
Attn: Tyson Byrne
Maryland Department of Transportation
7201 Corporate Center Drive
P.O. Box 548
Hanover, MD 21076

Dear Mr. Halligan:

Enclosed is an amendment to the 2014 – 2017 Baltimore Region Transportation Improvement Program (TIP) as approved by the BRTB on January 27, 2015. The Maryland Transit Administration (MTA) requested a change to the TIP to replace aging Metro railcars and the associated signal system equipment.

The Interagency Consultation Group has determined that this project is exempt from the requirement to determine conformity according to the Conformity Rule. The amendment underwent a publicized 30-day public review from December 15, 2014 to January 14, 2015 with a public meeting held on January 8th at the Odenton Regional Library. No comments were received.

The MTA affirmed that fiscal constraint for their program of projects remains intact and will utilize the MTA's share of appropriated federal funds.

Pursuant to the prescribed Transportation Improvement Program amendment process, the BRTB approved Resolution #15-18 to support changes to the 2014 – 2017 TIP for the Metro Railcar and Signaling Systems Replacement project.

If you have any questions, please call me.

Sincerely,

Todd R. Lang, Director
Transportation Planning

Enclosures

cc: Ms. Terri Lippa, Maryland Transit Administration

BALTIMORE METROPOLITAN PLANNING ORGANIZATION

BALTIMORE REGIONAL TRANSPORTATION BOARD
RESOLUTION #15-18

AMENDMENT TO THE 2014 – 2017 BALTIMORE REGION TRANSPORTATION IMPROVEMENT PROGRAM

WHEREAS, the Baltimore Regional Transportation Board is the designated Metropolitan Planning Organization for the Baltimore region, encompassing the Baltimore Urbanized Area, and includes official representatives of the cities of Annapolis and Baltimore, the counties of Anne Arundel, Baltimore, Carroll, Harford, and Howard, as well as representatives of the Maryland Department of Transportation, the Maryland Department of the Environment, the Maryland Department of Planning, and the Maryland Transit Administration; and

WHEREAS, the Baltimore Regional Transportation Board, as the Metropolitan Planning Organization for the Baltimore region, approved the 2014-2017 Transportation Improvement Program for the Baltimore region at its November 26, 2013 meeting, with federal approval on May 19, 2014; and

WHEREAS, federal regulations require that all transportation-related projects must be listed in the approved Transportation Improvement Program with accurate funding schedules in order to be eligible for federal funding; and

WHEREAS, the Transportation Improvement Program consists of projects included in, and in support of, the region's long-range transportation plan and ongoing short-range planning efforts; and

WHEREAS, the Maryland Department of Transportation on the behalf of the Maryland Transit Administration has requested approval of an amendment to the 2014-2017 Transportation Improvement Program through the approved Transportation Improvement Program amendment process; and

WHEREAS, the Maryland Transit Administration is requesting to add a project called Metro Railcar and Signaling Systems Replacement (see Attachment 1) to address railcars reaching the end of their estimated 30-year useful life; and

WHEREAS, the Transportation Improvement Program, as amended, continues to display financial reasonableness and re-affirms the appropriate project selection criteria whereby all requirements for a Transportation Improvement Program in the Moving Ahead for Progress in the 21st Century Act are met; and

WHEREAS, the Interagency Consultation Group has determined that this project is exempt according to the Conformity Rule (40 CFR Parts 51 and 93); and

WHEREAS, the proposed Transportation Improvement Program amendment was publicized for a 30-day review from December 15, 2014 to January 14, 2015 with a public meeting on January 8th and a presentation to the Public Advisory Committee on January 7th. No comments were received on this project.

NOW, THEREFORE, BE IT RESOLVED that the Baltimore Regional Transportation Board, as the Metropolitan Planning Organization for the Baltimore region, approves the attached amendment to the 2014-2017 Transportation Improvement Program for the Baltimore region and finds it to conform to the applicable Maryland State Implementation Plan and requirements of the 1990 Clean Air Act Amendments.

I HEREBY CERTIFY that the Baltimore Regional Transportation Board as the Metropolitan Planning Organization for the Baltimore region approved the aforementioned resolution on January 27, 2015.

1-27-15
Date

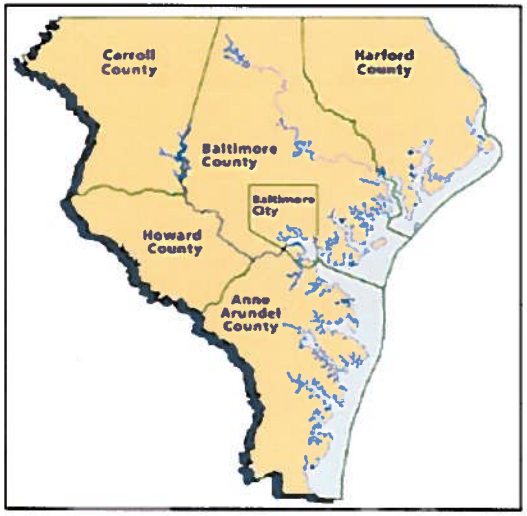
George G. Cardwell, Chairman
Baltimore Regional Transportation Board

Metro Railcar and Signaling Systems Replacement

TIP ID	40-1403-64	**Year of Operation**	2016
Agency	MTA - Transit	**Project Type**	Preservation and improvements
Project Category	Transit	**Functional Class**	NA
Conformity Status	Exempt	**Physical Data**	NA
CIP or CTP ID(s)	1415/1445	**Est. Total Cost**	$72,694,000

Description:

The Metro Railcar fleet consists of 90 cars (45 semi-permanent married pairs). Based on the 30 year design life, the Metro cars are due for replacement. The replacement of the railcar fleet will provide passengers with enhanced comfort, conveniences and ensure improved reliability.



The replacement of Metro Signaling System consists of a double tracked train controlled signaling system that is 15 miles long. The Metro train control system was installed in three phases and the oldest section is currently 30 years old. The Automatic Train Protection system is currently experiencing reliability issues due to its age and parts obsolescence thus increasing maintainability issues across its various systems and sub-systems. The replacement of the Signaling System with modern, reliable equipment will enhance passenger comfort, ensure better reliability and offer improved safety.

Note: in addition to the state match below, the state will commit an additional $228.9 million in non-federal funds.

Justification: The replacement of Metro Vehicles and the Signaling system with modern and reliable equipment will enhance passenger comfort, ensure better reliability and offer improved safety.

Connection to Long-Range Transportation Planning Goals:

2.D Preserve the Existing Infrastructure – Continue to invest in improvements to existing rail and bus infrastructure and stations/stops

Metro Railcar and Signaling Systems Replacement

(Funding in Thousands)

Section 5307 Urbanized Area Formula

Phase	FY 2014 Federal Funds	FY 2014 Matching Funds	FY 2015 Federal Funds	FY 2015 Matching Funds	FY 2016 Federal Funds	FY 2016 Matching Funds	FY 2017 Federal Funds	FY 2017 Matching Funds	Total Four-Year Funding Request
CON	$0	$0	$1,600	$400	$28,010	$7,003	$24,904	$6,226	$68,143
OTH	$0	$0	$0	$0	$0	$0	$0	$0	$0
PE	$0	$0	$0	$0	$0	$0	$0	$0	$0
PP	$0	$0	$0	$0	$0	$0	$0	$0	$0
ROW	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal	**$0**	**$0**	**$1,600**	**$400**	**$28,010**	**$7,003**	**$24,904**	**$6,226**	**$68,143**

Congestion Mitigation and Air Quality

Phase	FY 2014 Federal Funds	FY 2014 Matching Funds	FY 2015 Federal Funds	FY 2015 Matching Funds	FY 2016 Federal Funds	FY 2016 Matching Funds	FY 2017 Federal Funds	FY 2017 Matching Funds	Total Four-Year Funding Request
CON	$0	$0	$0	$0	$3,641	$910	$0	$0	$4,551
OTH	$0	$0	$0	$0	$0	$0	$0	$0	$0
PE	$0	$0	$0	$0	$0	$0	$0	$0	$0
PP	$0	$0	$0	$0	$0	$0	$0	$0	$0
ROW	$0	$0	$0	$0	$0	$0	$0	$0	$0
Subtotal	**$0**	**$0**	**$0**	**$0**	**$3,641**	**$910**	**$0**	**$0**	**$4,551**
Total	**$0**	**$0**	**$1,600**	**$400**	**$31,651**	**$7,913**	**$24,904**	**$6,226**	**$72,694**

MARYLAND TRANSIT ADMINISTRATION

MARYLAND DEPARTMENT OF TRANSPORTATION

Martin O'Malley, Governor • Anthony G. Brown, Lt. Governor
James T. Smith, Jr., Secretary • Robert L. Smith, Administrator

MEMORANDUM

TO: Mr. Don Halligan, Director
Office of Planning and Capital Programming

ATTN: Mr. Mike Nixon

FROM: Mr. Kevin Quinn, Director
MTA Office of Planning & Programming

DATE: December 01, 2014

SUBJECT: Amendment to the Baltimore Region FY 2014 TIP
To add the Metro Railcar and Signaling Systems Replacement

We are requesting an amendment to the Baltimore Region FY 2014 Transportation Improvement Program (TIP) to add the Metro Railcar and Signaling Systems Replacement project. This is a new project and is currently not in the TIP. It is necessary that this project be shown in the TIP to allow the MTA to apply for federal funding.

The MTA plans to obligate $54.5 million in federal funds in section 5307 in FY 2015 through FY 2017, and $3.6 million in federal funds in CMAQ in FY 2017.

After your review, please process the requested amendment with the Baltimore Metropolitan Council for inclusion in the FY 2014-2017 TIP. If you have any questions, please do not hesitate to contact Ms. Terri Lippa, MTA Office of Planning, at 410-767-3759 or via email at Tlippa@mta.maryland.gov.

cc: Mr. Tyson Byrne, Regional Planner, Office of Planning & Capital Programming, MDOT