

# DVRPC FY 2017-2020 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

**MPMS# 17876**      *Road/Resurfacing/Rehabilitation*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Roadway Rehabilitation

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S10

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** L. Guarini

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Reserve Line Item

**PennDOT Improvement:** Reserve Line Item

**NHPP:**

Typical components of a '3R' (Road/Resurfacing/Rehabilitation) project include base repair, milling, overlay, resurfacing, drainage improvements, signal modernization, and guiderail improvements. The intent of a '3R' project is to make whatever improvements are necessary to bring the road up to current standards. Project dollars will be drawn down as needed for individual projects.  
TOLL CREDIT

This project now programs funds and work previously included in the Preventive Maintenance Line Item #57622.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	581	103											
CON	581												
CON	581												
CON	STU												
CON	581							320					
CON	STU								3,210				
CON	581								2,000				
CON	581									2,963			
CON	STU											2,222	
CON	STU												15,006
CON	STP												2,868
CON	581												12,138
		103	0	0	0	0	0	320	5,210	2,963	0	2,222	30,012
		Total FY2017-2020			103	Total FY2021-2024			5,530	Total FY2025-2028			35,197

# DVRPC FY 2017-2020 TIP for PA

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 17891 *RideECO Mass Marketing Efforts SR:0000*

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLAN CENTER:

IPD:

PROJECT MANAGER: DVRPC/E. Burke

CMP: Not SOV Capacity Adding

PennDOT Class: Congestion Reduction

PennDOT Improvement: Congestion Reduction

NHPP:

This project will fund marketing materials and broad-based promotions, such as mass-market media efforts, a holiday gift certificate program, employee incentives for program implementation by their employer, and a direct mail effort to businesses, in order to increase RideECO sales.

		TIP Program Years (\$ 000)													
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028		
PRA	CAQ	200													
PRA	LOC	50													
PRA	CAQ		200												
PRA	LOC		50												
		250	250	0	0	0	0	0	0	0	0	0	0		
		Total FY2017-2020			500	Total FY2021-2024				0	Total FY2025-2028				0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 17900**      *Mobility Alternatives Program (MAP)/Share a Ride Program (SAR)/(HER)*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:A1

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Congestion Reduction

**PennDOT Improvement:** Congestion Reduction

**NHPP:**

These congestion mitigation efforts cover administration, business outreach efforts by contracted agencies, and the marketing of the Mobility Alternatives Program (MAP), the Share a Ride Program (SAR), and the Emergency Ride Home Program (ERH). Geared to employers, MAP is an outreach and education program overseen by DVRPC to provide information to employers and commuters about options to the single occupant auto for commuting to work. Most of the MAP contractors have the same work program, and the uniform marketing materials are created and produced by DVRPC. SAR is a computerized ride matching program available to all commuters with jobs in the DVRPC region. The system provides all available transit options to the applicant before any potential car or vanpool matches. SAR is a matching system only; once match information is provided to applicants, the individuals are responsible for making mutually-agreeable arrangements on their own. To complement SAR, the Emergency Ride Home Program makes rental-car or taxi transportation available in emergency situations.

Funds are allocated accordingly:\$200,800 CAQ/\$50,200 Match (\$34,200 State Appropriations 581/\$16,000 RideECO) for DVRPC UPWP; \$53,960 CAQ to each of the 5 regional TMA's; \$120,000 CAQ to SEPTA; \$62,200 to City of Philadelphia/Clean Air Council.

**TIP Program Years (\$ 000)**

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
PRA	CAQ	673											
PRA	581	50											
PRA	LOC	116											
PRA	CAQ												
PRA	581												
PRA	LOC												
PRA	CAQ												
PRA	581												
PRA	LOC												
PRA	CAQ												
PRA	581												
PRA	LOC												
		<b>839</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
		<b>Total FY2017-2020</b>		<b>839</b>		<b>Total FY2021-2024</b>		<b>0</b>		<b>Total FY2025-2028</b>		<b>0</b>	

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 17928**      *Air Quality Partnership*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Congestion Reduction

**PennDOT Improvement:** Congestion Reduction

**NHPP:**

This project will fund forecasting services by the University of Maryland, faxing services, a random telephone survey at the conclusion of the season to determine the penetration of the message, the kickoff event and the printing of promotional literature, and the development and placement of broadcast and print advertising.

TIP Program Years (\$ 000)														
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	CAQ	100												
PRA	LOC	25												
PRA	CAQ		100											
PRA	LOC		25											
		125	125	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			250		<b>Total FY2021-2024</b>			0		<b>Total FY2025-2028</b>		0

**MPMS# 48197**      *CSX Trenton Line Clearance Project*

**LIMITS** Park Junction to Delaware River

No Let Date

**IMPROVEMENT** Intersection/Interchange Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:M9

**PLAN CENTER:** Suburban Center

IPD: 8

**PROJECT MANAGER:** MAL/M. LANG

**CMP:** Not SOV Capacity Adding

lor(s): 4A, 4B, 5G, 5H, 5I, 12A, 14A

**PennDOT Class:** Congestion Reduction

**PennDOT Improvement:** Congestion Reduction

**NHPP:**

This project covers the CSX Trenton line, from Park Junction to the Delaware River at Yardley, via West Falls, Newtown Junction, and Woodbourne. Through the Philadelphia region, this rail line does not have adequate vertical clearances to accommodate double stack intermodal cars or tri-level auto racks, preventing full rail utilization for north-south freight moves and causing bottlenecks for area shippers and port facilities.

At approximately 16 locations, raise overhead highway bridges, lower existing tracks, and/or adjust overhead catenary to provide a continuous vertical clearance of 20 feet and 2 inches.

This project received a TEA 21 earmark PA ID#127 for \$5,000,000, a portion of which was used for design work.

This project is integral to the Delaware Valley Freight Corridors initiative.

TIP Program Years (\$ 000)														
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	CAQ*		1,000											
		0	1,000	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			1,000		<b>Total FY2021-2024</b>			0		<b>Total FY2025-2028</b>		0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 48199**      *Transportation Management Associations (TMA) SR:0000*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:A1

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Air Quality

**PennDOT Improvement:** Air Quality

**NHPP:**

Transportation Management Associations (TMA's) help the region address demand for the region's transportation system. They are public-private partnerships that provide a forum to resolve transportation issues in their service areas. Services include a range of transportation improvement options, including task forces, employer and construction project shuttles, advocacy, and congestion reduction assistance to employers along corridors and in municipalities. TMA's work closely with PennDOT to keep businesses connected and informed about construction projects. Because they actively promote congestion reduction measures and transit use, the TMAs help to lower the need for new highway capacity. Each TMA contractor has a work program tailored to the transportation issues and needs of their constituencies and territories. Work programs are developed collaboratively with PennDOT, DVRPC, and their respective County/City Planning departments.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
PRA	CAQ	1,064											
PRA	LOC	265											
PRA	CAQ		1,064										
PRA	LOC		265										
PRA	CAQ			922									
PRA	LOC			230									
PRA	CAQ				922								
PRA	LOC				230								
		<b>1,329</b>	<b>1,329</b>	<b>1,152</b>	<b>1,152</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
		<b>Total FY2017-2020</b>		<b>4,962</b>		<b>Total FY2021-2024</b>			<b>0</b>	<b>Total FY2025-2028</b>			<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 48201** *DVRPC Competitive CMAQ Program*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Congestion Reduction

**PennDOT Improvement:** Congestion Reduction

**NHPP:**

The Congestion Mitigation and Air Quality Improvement Program (CMAQ) was established by ISTEA and continued under TEA-21, SAFETEA-LU, and MAP-21. CMAQ funds are allocated to the states for use in non-attainment and maintenance areas for projects that contribute to the attainment of the Clean Air Act standards by reducing emissions from highway sources. Project types that are eligible for CMAQ funding include bicycle and pedestrian facilities; traffic flow improvements; ridesharing and other demand management programs; alternative fuel vehicles; and public transit improvements.

During a round of the DVRPC Competitive CMAQ Program, a call for projects goes out, applications are submitted, and candidate projects are ranked and selected by the DVRPC Board based on their emissions reduction potential, as well as other criteria such as cost-effectiveness, ease of implementation, project readiness, and sponsor commitment to provide matching funds.

The following projects selected in the calendar year 2011-2012 Competitive CMAQ Program will have funds drawn down from this Line Item at the appropriate time:

- MPMS #96221 - Multi-modal Access to New Britain Train Station -\$212,000 (\$169,600 CMAQ/ \$42,400 Matching funds)
- MPMS #96215 - City Avenue Adaptive Signals - \$1,143,500 (\$800,000 CMAQ/ \$343,500 Matching funds)
- MPMS #96222 - Enhanced Bike Facility Connection between Gray's Ferry and Bartram's Garden - \$600,000 (\$400,000 CMAQ/ \$200,000 Matching funds)
- MPMS #96227 - Traffic Operations Center Cameras - \$600,000 (\$480,000 CMAQ/ \$120,000 Matching funds)
- MPMS# 96238 - Upper Merion to Bridgeport Train Station Pedestrian Facilities Improvements - \$260,253 CMAQ/ \$304,832 Matching funds)
- MPMS# 96240 - Park Road Trail - \$1,455,908 (\$764,726 CMAQ/ \$691,182 Matching funds)

The following projects selected in the calendar year 2016 Competitive CMAQ Program will have funds drawn down from this Line Item at the appropriate time:

- 1) MPMS# 107636 - Neshaminy Greenway Trail -\$2,279,000 (\$1,823,000 CMAQ/ \$456,000 Matching funds)
- 2) MPMS# 107630 - Paoli Pike Trail Segment D-E -\$2,415,000 (\$1,736,000 CMAQ/ \$679,400 Matching funds)
- 3) MPMS# 107652 - US 202/US 1 ITS Corridor -\$3,300,000 (\$3,300,000 CMAQ/ State Matching funds)
- 4) MPMS# 107642 - Smithbridge Rd. Corridor Improvement Project -\$3,082,500 (\$1,589,500 CMAQ/ \$438,000 Matching funds/\$1,055,000 HSIP)
- 5) MPMS# 107639 - Installation of Adaptive Signal Control Along Route 3 -\$700,000 (\$560,000 CMAQ/ \$140,000 Matching funds)
- 6) MPMS# 107634 - Pedestrian Enhancements for Media Borough -\$909,818 (\$727,854 CMAQ/ \$181,964 Matching funds)
- 7) MPMS# 107649 - Connecting Wallingford to Mass Transit -\$471,162 (\$370,168 CMAQ/ \$100,994 Matching funds)
- 8) MPMS# 107650 - Easton Road Traffic Signal System Project -\$975,244 (\$780,195 CMAQ/ \$195,049 Matching funds)
- 9) MPMS# 107644 - Fayette Street Traffic Signal Improvements – Phase 2 -\$870,999 (\$799,606 CMAQ/ \$71,393 Matching funds)
- 10) MPMS# 107640 - Route 463 Traffic Signal System Project -\$1,141,450 (\$913,160 CMAQ/ \$228,290 Matching funds)
- 11) MPMS# 107646 - West Main Street Traffic Signal Improvements -\$551,455 (\$487,825 CMAQ/ \$63,630 Matching funds)
- 12) MPMS# 107633 - Plymouth Township CNG -\$644,944 (\$515,955 CMAQ/ \$128,989 Matching funds)
- 13) MPMS# 107654 - Advancing CNG in Philadelphia -\$7,154,000 (\$2,000,000 CMAQ/ \$3,350,000 Matching funds)
- 14) MPMS# 107637 - Ramping up to Rapid Transit on Roosevelt Boulevard -\$2,989,500 (\$1,999,500 CMAQ/ \$990,000 Matching funds)
- 15) MPMS# 107648 - Reformatting N. 5th Street as a Complete Street -\$2,575,000 (\$2,020,000 CMAQ/ \$555,000 Matching funds)
- 16) MPMS# 107632 - Fox Chase Lorimer Trail -\$1,004,700 (\$868,700 CMAQ/ \$136,000 Matching funds)
- 17) MPMS# 107631 - Navy Yard Contra Flow Loop Shuttle -\$845,040 (\$416,280 CMAQ/ \$428,760 Matching funds)

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	CAQ												
CON	CAQ		1,133										
CON	CAQ			3,000									
CON	CAQ				12,309								

# DVRPC FY 2017-2020 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

	0	1,133	3,000	12,309	0	0	0	0	0	0	0	0
<b>Total FY2017-2020</b>	<b>16,442</b>				<b>Total FY2021-2024</b>	<b>0</b>			<b>Total FY2025-2028</b>	<b>0</b>		

**MPMS# 48202**      *Regional GIS Support - DVRPC*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Safety Improvement

**PennDOT Improvement:** Safety Improvement

**NHPP:**

Geographic Information Systems (GIS) combine computer based mapping and database technologies to provide planners and engineers with new and efficient methods to analyze data related to the transportation system. The counties and operators in the region are each developing such systems. This line item will provide funding for the common elements of such systems as part of an effort to achieve a greater degree of regional consistency and obtain economies of scale.

Internet mapping task work is included.

**TOLL CREDIT**

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PE	TOLL													
PE	STU	350												
PE	TOLL													
PE	STU		350											
		<b>350</b>	<b>350</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
		<b>Total FY2017-2020</b>			<b>700</b>	<b>Total FY2021-2024</b>				<b>0</b>	<b>Total FY2025-2028</b>			<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 57927** *Regional Safety Initiatives (HSIP)*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Intersection/Interchange Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S6

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Reserve Line Item

**PennDOT Improvement:** Reserve Line Item

**NHPP:**

Safety projects eligible for HSIP (Highway Safety Improvement Program) funds will be undertaken at various locations across the five county region. Projects can be 100% federally funded as allowed by the use of Toll Credits for match.

Individual project funding has been drawn down for the following projects:

- MPMS #57625 - Route 232 Swamp Road Safety Improvements - Bucks County - \$500,000 for Final Design, \$252,000 for Utility
- MPMS #85949 – SR 896 Safety Improvements – Chester County - \$1,645,000 for Preliminary Engineering
- MPMS #85417 - Allegheny Avenue Safety Improvements –Philadelphia - \$1,190,000 for Preliminary Engineering, \$955,000 for Final Design, \$200,000 for Utility, \$7,629,000 for Construction
- MPMS #85419 - Erie Ave: Broad St. – K St. – Philadelphia - \$600,000 for Preliminary Engineering, \$350,000 for Final Design, \$475,000 for Utility, \$4,4,769,000 for Construction
- MPMS #80042 - PA 100 Corridor Safety Improvements - \$178,000 for Preliminary Engineering, \$477,000 for FinalDesign, \$151,000 for ROW, \$5,800,000 for Construction
- MPMS #85415 - Olney Ave Safety Improvements - \$850,000 for Preliminary engineering, \$728,000 for Final Design, \$5,004,000 for Construction

Remaining funds that will be used to advance the following projects to be drawn down at the appropriate time and to fund selected improvements identified through Regional Safety Audits:

Bucks County:

MPMS #57625 - Route 232 Swamp Road Safety Improvements - \$3,501,000 CON

Chester County:

MPMS #80042 - PA 100 Corridor Safety Improvements – \$6,500,000 CON

MPMS #85949 – SR 896 Safety Improvements – \$1,000,000 ROW/ \$250,000 UTL/ \$8,200,000 CON

Delaware County:

MPMS #48168 - Baltimore Pike Signals – Project was let for construction on 4/17/2014.

MPSM #107642 - Smithbridge Road Corridor - \$3,082,500 (\$1,589,500 CMAQ/ \$438,000 Matching funds/\$1,055,000 HSIP) CON

Philadelphia:

MPMS #85417 - Allegheny Avenue Safety Improvements – \$200,000 UTL/ \$100,000 ROW/ \$7,000,000 CON

MPMS #85415 - Olney Avenue Safety Improvements –Project was let for construction on 5/21/2015

MPMS #85419 - Erie Ave: Broad St. – K St. –Project was let for construction on 7/16/2015

MPMS #80104 – Henry Ave. Corridor Safety Improvements, Phase 1 –\$1,200,000 FD/ \$100,000 UTL/ \$100,000 ROW/ \$5,500,000 CON

MPMS #102134 – Henry Ave. Corridor Safety Improvements, Phase 2 –\$300,000 FD/ \$250,000 UTL/ \$500,000 ROW/ \$3,000,000 CON

MPMS #102506 – W. Phila. Intersection Upgrades - Project was let for construction on 8/14/2014

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	HSIP												
CON	HSIP		5,679										
CON	HSIP			13,653									
CON	HSIP				14,159								
CON	HSIP					14,159							
CON	HSIP						14,159						



# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

CON	HSIP							14,159					
CON	HSIP								14,159				
CON	HSIP									14,159			
CON	HSIP										14,159		
CON	HSIP											14,159	
CON	HSIP												14,159
		0	5,679	13,653	14,159	14,159	14,159	14,159	14,159	14,159	14,159	14,159	14,159
		<b>Total FY2017-2020</b>		<b>33,491</b>		<b>Total FY2021-2024</b>		<b>56,636</b>		<b>Total FY2025-2028</b>		<b>56,636</b>	

**MPMS# 63406**      *Retrofit for Bike Lanes and Shoulders*

**Return**

**LIMITS**    Regionwide

No Let Date

**IMPROVEMENT**    Bicycle/Pedestrian Improvement

**MUNICIPALITIES:**    Various

**FC:**

AQ Code:NRS

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**    TRAFF

**CMP:**

**PennDOT Class:**    Bicycle/Pedestrian

**PennDOT Improvement:**    Bicycle/Pedestrian

**NHPP:**

The purposes of this project are to (1) place an engineering consultant on retainer to undertake the necessary design work to retrofit bike lanes and bicycle-friendly shoulders where appropriate, coincident with resurfacing projects and (2) maintain existing and future bicycle facilities, including installation, maintenance, and replacement of striping and damaged and missing signs. Work would include bike lanes, edge line striping, signs, and revising traffic signal permit drawings to continue edge line revisions through signalized intersections. Work would be limited to Bucks, Chester, Delaware, and Montgomery counties.

There is a collaborative process in place with the four counties, PennDOT District 6-0, DVRPC, and the Bicycle Coalition of Greater Philadelphia which has developed potential projects in corridors with bicycling activity or where there is a latent demand for bicycling if bicycle-friendly facilities were provided. Continuation of this process will permit this funding to be used on the projects already developed or other projects that the group may develop.

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
PE	CAQ		400										
CON	CAQ		100										
		0	500	0	0	0	0	0	0	0	0	0	0
		<b>Total FY2017-2020</b>		<b>500</b>		<b>Total FY2021-2024</b>		<b>0</b>		<b>Total FY2025-2028</b>		<b>0</b>	

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 64652**      *Transportation Community Development Initiative (TCDI)*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X3

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Bicycle/Pedestrian

**PennDOT Improvement:** Bicycle/Pedestrian

**NHPP:**

The Transportation and Community Development Initiative (TCDI) provides a mechanism for the individual municipalities of the Delaware Valley to undertake locally-directed actions to improve their communities, which in turn implements their local and county comprehensive plans and supports the goals and vision of the regional plan. Pennsylvania and New Jersey, as well as a number of counties within the region, have programs now underway to support community revitalization.

The regional Transportation and Community Development Initiative seeks to support and leverage those programs, by providing funding of up to \$100,000 in selected municipalities to undertake planning, analysis or design initiatives for projects or programs which enhance development or redevelopment and improve the efficiency or enhance the regional transportation system. A 20% cash or in-kind match is required.

The program is targeted to the core cities, inner-ring suburbs, and older boroughs of the region that have lost jobs and population and are in need of assistance to generate growth and redevelopment. Identified census tract areas in 75 southeastern Pennsylvania municipalities as well as much of the city of Philadelphia, are eligible to apply for TCDI funding. Projects will be selected on a competitive basis and designated by the DVRPC Board.

FY13 Funds are programmed for projects selected as part of Round 8, 2014/2015. Funds are made available for projects in order to accommodate the program operating on an every other year cycle. This activity is a component of the DVRPC Work Program (UPWP).

		TIP Program Years (\$ 000)															
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028				
PE	STU		1,200														
PE	LOC		300														
		0	1,500	0	0	0	0	0	0	0	0	0	0				
		Total FY2017-2020		1,500		Total FY2021-2024				0				Total FY2025-2028		0	

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 64984** *Transportation Alternatives Program (TAP) Line Item*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Bicycle/Pedestrian Improvement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X12

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** L. Guarini

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Reserve Line Item

**PennDOT Improvement:** Reserve Line Item

**NHPP:**

This line item sets aside the funding allocated by FHWA for the FAST Act's Surface Transportation Block Grant Set-a-Side for the continuation of the Transportation Alternatives Program (TAP) in the DVRPC region. The TAP Program funds "non-traditional" projects that enhance the transportation experience, mitigate the impacts of transportation facilities on communities and the environment, and enhance community character through transportation-related improvements. Federal law sets up a direct allocation of TAP funds to urbanized areas with populations greater than 200,000, and all TAP funds must be awarded through a competitive process whether the funds be the regional MPO funds or from the statewide allocation. For the DVRPC regional funds, priority has been established for bicycle and pedestrian facilities, conversion of abandoned railway corridors to trails, and storm-water management projects.

The FAST Act apportions \$3,857,000 TAP funds in FY17, and \$3,932,000 TAP funds annually, after FY2017, directly to the DVRPC southeastern Pennsylvania region for use in selecting projects on a competitive basis. A recent competitive round (2017 Round) of three years' worth of MPO funding occurred in Fall of 2017, with final projects awarded in January 2018. Selected projects will be assigned an individual MPMS project number and description in the TIP, and funding will be drawn down from this line item and programmed at the appropriate time.

The following projects were approved through the TA Set-Aside program in Winter 2018:

- Bucks – Neshaminy Greenway Trail (Core Creek Park to Woodbourne Road) – MPMS #TBD - \$995,000
- Bucks – Iron Work Creek Sidewalk – MPMS #TBD – \$894,000
- Chester – Kennett Area Safer Active Transportation Routes – MPMS #TBD - \$915,000
- Chester – Paoli Trail, Segment A – MPMS #TBD - \$483,000
- Delaware – Pennsy Trail – Phase II Improvements – MPMS #TBD - \$1,163,000
- Montgomery – Jenkintown to Pennypack Trail – MPMS #TBD - \$715,000
- Montgomery – Parkside Cynwyd Trail Extension – MPMS #TBD - \$534,000
- Philadelphia – North Broad Street – Vision Zero Priority Corridor – MPMS #TBD - \$300,000
- Philadelphia – Renewing Philadelphia's Historic Streets – MPMS #TBD - \$1,000,000
- Philadelphia – Restoration of Historic Shawmont Station – MPMS #TBD - \$1,000,000

\$4,000,000 of the Winter 2018 solicitation is to be used for regionally significant trail projects in the future, including projects in the Circuit Line Item – MPMS #105291.

The following projects were approved through the TAP program in Spring 2016:

- Bucks – Neshaminy Greenway Trail (Bristol to Upper State) – MPMS #102830 - \$1,255,000
- Chester – Paoli Pike Trail, Segment C – MPMS #107176 - \$1,000,000
- Delaware – Moore Road Sidewalk Project – MPMS #107177 - \$825,000
- Delaware – Springfield Township Sidewalk Improvements – MPMS #107178 - \$280,000
- Montgomery – FWOP, Cross County Trail Final Segment – MPMS #107179 - \$750,000
- Montgomery – Powerline Trail Connection – Phase 1 – MPMS #107180 - \$850,000
- Philadelphia – Chetlens-Greene Plaza Reconstruction – MPMS #107181 - \$370,000
- Philadelphia – City of Philadelphia SRTS (Non-Infrastructure) – MPMS #107182 - \$450,000
- Philadelphia – Make Way for Children, Expanding Ped. Infrastructure – MPMS #107183 - \$950,000
- Philadelphia – Manayunk Bridge Trail Site Amenities – MPMS #107197 - \$600,000
- Philadelphia – Safe Spaces for Cyclists: Building a Protected Bicycle Network – MPMS #107198 - \$300,000

The following projects were approved through the TAP program in Spring 2014:

- Bucks – Neshaminy Greenway Trail to Lenape Lane – MPMS # - \$800,000
- Bucks – Solebury Route 202 Gateway Trail – MPMS #102831 - \$980,859
- ChesCo – Kennett and New Garden Township Sidewalk Project – MPMS #102832 - \$850,000
- ChesCo – Village of Eagle Trail Connections – MPMS #102833 - \$560,000
- DelCo – Pedestrian and Bicycle Accessibility Enhancements – MPMS #102834 - \$420,000
- DelCo – Hillside Road Pedestrian Safety Improvements – MPMS #102835 - \$530,000
- DelCo – Nether Providence Township Sidewalks (SRTSF) – Round 1 – MPMS #87119 - \$225,000
- MontCo – Walk and Bike Pottstown Phase 1 & 2 – MPMS #102836 - \$1,000,000
- MontCo – Liberty Bell Trail Connection – MPMS #102837 - \$635,000

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

Philadelphia Bike Share Program – MPMS #102838 - \$1,250,000  
 South Philadelphia Neighborhood Bikeway – MPMS #102839 - \$250,000

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	TAU	328											
CON	TAU		2,012										
CON	TAU			3,932									
CON	TAU				3,932								
CON	TAU					3,932							
CON	TAU						3,932						
CON	TAU							3,932					
CON	TAU								3,932				
CON	TAU									3,932			
CON	TAU										3,932		
CON	TAU											3,932	
CON	TAU												3,932
		<b>328</b>	<b>2,012</b>	<b>3,932</b>	<b>3,932</b>	<b>3,932</b>	<b>3,932</b>	<b>3,932</b>	<b>3,932</b>	<b>3,932</b>	<b>3,932</b>	<b>3,932</b>	<b>3,932</b>
		<b>Total FY2017-2020</b>		<b>10,204</b>		<b>Total FY2021-2024</b>			<b>15,728</b>		<b>Total FY2025-2028</b>		<b>15,728</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 65109 *Transit Flex - SEPTA*

LIMITS System-wide

No Let Date

IMPROVEMENT Transit Improvements

MUNICIPALITIES: Various

FC:

AQ Code:M1

PLAN CENTER:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

PennDOT Class: Public Transit

PennDOT Improvement: Public Transit

NHPP:

This project is a placeholder of the highway funds that PennDOT has "flexed" for transit use in the DVRPC region as part of the Planning Partner Financial Guidance. SEPTA may choose to use these funds to supplement its other federal and state funding for any capital project.

Each year SEPTA will apply these "flexed" funds to one of its other projects in the TIP, but may choose to apply them to a new project through the TIP amendment process.

FY 2017-2020 funding in the amount of \$68,332,000 has been applied to MPMS# 90512, SEPTA Bus Purchase Program.

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
PE	FLEX	17,083											
PE	FLEX		17,083										
PE	FLEX			17,083									
PE	FLEX				17,083								
PE	FLEX					17,083							
PE	FLEX						17,083						
PE	FLEX							17,083					
PE	FLEX								17,083				
PE	FLEX									17,083			
PE	FLEX										17,083		
PE	FLEX											17,083	
		17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083	17,083
		Total FY2017-2020		68,332		Total FY2021-2024		68,332		Total FY2025-2028		68,332	

# DVRPC FY 2017-2020 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 66460** *TAP Project Engineering and Management - DVRPC*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Bicycle/Pedestrian Improvement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X12

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** L. Guarini

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Transportation Enhancement

**PennDOT Improvement:** Transportation Enhancement

**NHPP:**

Assist PennDOT by providing engineering and project management responsibilities in the implementation of non-traditional TE funded transportation projects. This will involve review of engineering plans and documents, facilitation and coordination among the project applicants, consultants, PennDOT District staff, PennDOT Central Staff, and FHWA. This activity is a component of the DVRPC Work Program (UPWP).

TIP Program Years (\$ 000)														
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PE	STU	520												
PE	581	130												
PE	STU		552											
PE	581		138											
		650	690	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			1,340		<b>Total FY2021-2024</b>				0		<b>Total FY2025-2028</b>	
							0						0	

**MPMS# 66461** *CMAQ Project Engineering and Management - DVRPC*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X5

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Congestion Reduction

**PennDOT Improvement:** Congestion Reduction

**NHPP:**

Assist PennDOT by providing engineering and project management responsibilities in the implementation of non-traditional CMAQ funded transportation projects. This will involve review of engineering plans and documents, facilitation and coordination among the project applicants, consultants, PennDOT District staff, PennDOT Central Staff, and FHWA. This activity is a component of the DVRPC Work Program (UPWP).

TIP Program Years (\$ 000)														
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PE	CAQ	88												
PE	581	22												
PE	CAQ		88											
PE	581		22											
		110	110	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			220		<b>Total FY2021-2024</b>				0		<b>Total FY2025-2028</b>	
							0						0	

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 72738** *Intelligent Transportation Systems (ITS) Including RIMIS - DVRPC*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Signal/ITS Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** James Mosca

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Intelligent Transportation System **PennDOT Improvement:** Intelligent Transportation System

**NHPP:**

DVRPC's Intelligent Transportation System (ITS) program encompasses a wide range of activities including the ITS Technical Task Force, incident management programs, ITS architecture development, training programs for ITS operators and emergency response personnel, and technical assistance to agencies. Its centerpiece is the Regional Integrated Multi-modal Information Sharing (RIMIS) concept which will implement an Information Exchange Network (IEN) that will function as the communications backbone among operation centers throughout the region. This system would be used to notify agencies about incidents or unusual conditions which affect them, and will allow them to share resources (e.g., variable message signs) and coordinate a unified response. Information will be made available to the public via traffic reporting agencies. This activity is a component of the DVRPC Work Program (UPWP).

This project is integral to the Delaware Valley Freight Corridors initiative.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	CAQ	560												
PRA	581	140												
PRA	CAQ		560											
PRA	581		140											
		<b>700</b>	<b>700</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
		<b>Total FY2017-2020</b>		<b>1,400</b>		<b>Total FY2021-2024</b>				<b>0</b>		<b>Total FY2025-2028</b>		<b>0</b>

**MPMS# 75854** *District Program Management Services "A"*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Planning/Research/Administratio **PennDOT Improvement:** Planning/Research/Administration

**NHPP:**

This project provides funds for selected consultants to provide Project Management Services and handling all tasks to advance PennDOT transportation projects from inception to a bid letting. Tasks include guidance in project development; preparation and monitoring of schedules and costs; review and/or coordination of design submissions, right of way plans, design drawings, specifications and estimates; conduct design review meetings, constructability reviews and plan checks; review environmental items and ensure all permits are obtained; and coordinate with stakeholders including PennDOT, environmental agencies, municipal officials or authorities, utility companies, and the general public.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PE	581	1,500												
PE	581		1,500											
		<b>1,500</b>	<b>1,500</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
		<b>Total FY2017-2020</b>		<b>3,000</b>		<b>Total FY2021-2024</b>				<b>0</b>		<b>Total FY2025-2028</b>		<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 75855** *District Program Management Services "B"*

**LIMITS** Region-wide No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** **CMP:** Not SOV Capacity Adding

**PennDOT Class:** Planning/Research/Administratio **PennDOT Improvement:** Planning/Research/Administration

**NHPP:**

This project provides funds for selected consultants to provide Project Management Services and handling all tasks to advance PennDOT transportation projects from inception to a bid letting. Tasks include guidance in project development; preparation and monitoring of schedules and costs; review and/or coordination of design submissions, right of way plans, design drawings, specifications and estimates; conduct design review meetings, constructability reviews and plan checks; review environmental items and ensure all permits are obtained; and coordinate with stakeholders including PennDOT, environmental agencies, municipal officials or authorities, utility companies, and the general public.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	581	1,500												
PRA	581		1,500											
		1,500	1,500	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			<b>3,000</b>		<b>Total FY2021-2024</b>			<b>0</b>		<b>Total FY2025-2028</b>		<b>0</b>

**MPMS# 79927** *Highway Reserve Line Item-STP*

**LIMITS** Region-wide No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** **CMP:** Not SOV Capacity Adding

**PennDOT Class:** Reserve Line Item **PennDOT Improvement:** Reserve Line Item

**NHPP:**

Highway Reserve District-Wide Line Item. This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	STP	19												
CON	581	677												
CON	STP		50											
CON	581		233											
CON	LOC		214											
CON	STP			140										
CON	581			150										
CON	STP				4,441									
CON	STP					2								
CON	STP							135						
CON	STP								5					
		696	497	290	4,441	2	0	135	5	0	0	0	0	
		<b>Total FY2017-2020</b>			<b>5,924</b>		<b>Total FY2021-2024</b>			<b>142</b>		<b>Total FY2025-2028</b>		<b>0</b>



# DVRPC FY 2017-2020 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 79929 *Bridge Reserve Line Item*

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:S19

PLAN CENTER:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

PennDOT Class: Bridge Replacement

PennDOT Improvement: Bridge Replacement

NHPP:

This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

A final alternative for bridge rehabilitation or replacement is determined upon federal National Environmental Policy Act (NEPA) or state Categorical Exclusion clearance.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	BON	208											
CON	BOO	304											
CON	BOF												
CON	185												
CON	LOC												
CON	BOF		251										
CON	185		206										
CON	LOC												
CON	185			38									
CON	185				72								
CON	LOC				185								
CON	185					15							
CON	185									675			
CON	185												
		512	457	38	257	15	0	0	0	675	0	0	0
		Total FY2017-2020		1,264		Total FY2021-2024			15	Total FY2025-2028			675

# DVRPC FY 2017-2020 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 79980 *STU Reserve Line Item*

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:S10

PLAN CENTER:

IPD:

PROJECT MANAGER:

CMP: Not SOV Capacity Adding

PennDOT Class: Reserve Line Item

PennDOT Improvement: Reserve Line Item

NHPP:

This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	STU												
CON	581	998											
CON	LOC	40											
CON	STU		2,274										
CON	581		553										
CON	STU			2,526									
CON	581			466									
CON	LOC			870									
CON	STU				4,155								
CON	581				1,644								
CON	LOC				754								
CON	581					170							
CON	STU						284						
CON	STU									59			
CON	STU										1,088		
		<b>1,038</b>	<b>2,827</b>	<b>3,862</b>	<b>6,553</b>	<b>170</b>	<b>284</b>	<b>0</b>	<b>0</b>	<b>59</b>	<b>1,088</b>	<b>0</b>	<b>0</b>
		<b>Total FY2017-2020</b>		<b>14,280</b>		<b>Total FY2021-2024</b>		<b>454</b>		<b>Total FY2025-2028</b>		<b>1,147</b>	

# DVRPC FY 2017-2020 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 80093** *I-76, Regional Travel Information*

**LIMITS** I-76 in Philadelphia/Lower and Upper Merion Townships

Est Let Date: 9/14/2017

**IMPROVEMENT** Signal/ITS Improvements

**MUNICIPALITIES:**

**FC:** 11

AQ Code:S7

**PLAN CENTER:** Metropolitan Subcenter

IPD: 2

**PROJECT MANAGER:** AECOM/E. Reagle

**CMP:** Not SOV Capacity Adding

CMP Subcorridor(s): 3A, 3B, 3C

**PennDOT Class:** Intelligent Transportation System **PennDOT Improvement:** Intelligent Transportation System

**NHPP:** Y

This project will implement a Variable Speed Limit System and a Queue Detection System along I-76 from I-276 to US 1. The new Variable Speed Limit and Queue Detection systems will utilize existing fiber optic communications infrastructure and existing ITS equipment supplemented with additional equipment for these new systems. The purpose is to improve safety and traffic operations along the corridor. Over 2100 crashes were reported along this roadway section between 2009 and 2013 with 66% being rear-end crashes. Variable Speed Limits are used to maximize capacity with uniform travel speeds, provide safer travel speeds for conditions, and reduce rear-end collisions. Queue Detection is used to reduce sudden stopping, reduce bottlenecks from rear end crashes and promote more uniform driver behavior. These systems are anticipated to reduce total number of crashes, accelerate response to crashes, alert drivers to emerging incidents, and reduce delays along the corridor.

This project was funded by a \$3,200,000 SAFETEA-LU Earmark (PA ID# 361/FED ID# 0878)

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	NHPP	1,714											
CON	581	429											
CON	SXF		128										
CON	CAQ		6,695										
CON	STU												
CON	NHPP												
CON	581		1,706										
CON	STP												
CON	NHPP												
CON	581												
		<b>2,143</b>	<b>8,529</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
		<b>Total FY2017-2020</b>		<b>10,672</b>		<b>Total FY2021-2024</b>				<b>0</b>			
						<b>Total FY2025-2028</b>				<b>0</b>			

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 82216 NHPP Reserve Line Item

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLAN CENTER:

IPD:

PROJECT MANAGER: L. Guarini

CMP: Not SOV Capacity Adding

PennDOT Class: Reserve Line Item

PennDOT Improvement: Reserve Line Item

NHPP:

This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	NHPP												
CON	581	1,438											
CON	NHPP		126										
CON	581		169										
CON	NHPP			811									
CON	581			1,738									
CON	NHPP				3,827								
CON	581				956								
CON	581							572					
CON	581									1,655			
CON	581											184	
CON	581												1,031
		1,438	295	2,549	4,783	0	0	0	572	1,655	0	184	1,031
		Total FY2017-2020			9,065	Total FY2021-2024			572	Total FY2025-2028			2,870

# DVRPC FY 2017-2020 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 83743 ADA Ramps Line Item

LIMITS Region-wide

No Let Date

IMPROVEMENT Bicycle/Pedestrian Improvement

MUNICIPALITIES: Various

FC:

AQ Code:A2

PLAN CENTER:

IPD:

PROJECT MANAGER: L. Guarini

CMP: Not SOV Capacity Adding

PennDOT Class: Reserve Line Item

PennDOT Improvement: Reserve Line Item

NHPP:

This line item is a set aside to address candidates for ADA ramp reconstruction/construction that are needed in the DVRPC region. As the proposals originally reflected in the Decade of Investment are more completely understood, evaluated, and recommended, specific TIP candidate project recommendations can be developed.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	STU													
CON	581	1,866												
CON	STU		760											
CON	581		1,554											
CON	STU					597								
CON	581					1,089								
CON	STP							4,218						
CON	581							1,054						
CON	STU									3,750				
CON	581									796				
		1,866	2,314	0	0	0	1,686	5,272	0	4,546	0	0	0	
		Total FY2017-2020		4,180		Total FY2021-2024			6,958		Total FY2025-2028		4,546	

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 84059**      *Traffic Incident Management*

**Return**

**LIMITS** Broad St Intchge to Delaware State Ln

No Let Date

**IMPROVEMENT** Signal/ITS Improvements

**MUNICIPALITIES:** Various

**FC:** 11

AQ Code:S7

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** Goerge Dunheimer ADE CONSTR    **CMP:** Not SOV Capacity Adding

**PennDOT Class:** Intelligent Transportation System    **PennDOT Improvement:** Intelligent Transportation System

**NHPP:** Y

The project will include design of ITS devices along I-95 from the Delaware state line to Broad Street and along the I-476 corridor from I-95 to the St. David's interchange. The ITS devices will enable PennDOT to monitor I-95 and I-476, facilitate more efficient incident response and transportation management, and provide valuable information to travelers to improve the safety and efficiency of their experience on the I-95 corridor. The devices and locations scoped for this project will fit into PennDOT's overall I-95 Interstate ITS Completion Plan. The devices will be connected into PennDOT's fiber optic communications system and ultimately managed from PennDOT's Regional Transportation Management Center, located in the District 6-0 offices in King of Prussia, PA. The project also enhances PennDOT's cooperation and collaboration with regional stakeholders located in the study area, such as Delaware County, and the City of Philadelphia Streets Department, Sports Complex and Airport.

**I-95, Section ITC (DelawareState Line to Girard Point Bridge)**

This section of expressway spans 16 miles and consists of primarily 3 through lanes traveling in each direction. 14 interchanges, including an interstate-to-interstate interchange at Exit 7 (I-95/I-476) as well as the exit for the Philadelphia International Airport (Exit 10) are located in this section. As of 2007, the average AADT through this section was approximately 146,000 vehicles. ITS devices currently deployed include 2 north-facing DMS located north of PA-420 and north of Exit 9 respectively and 3 CCTV cameras located at the I-95/I-476 Interchange, Island Avenue, and Enterprise Avenue. In order to provide complete ITS coverage through this section, the I-95 Interstate ITS Completion Plan anticipates that additional ITS devices will be required. Five (5) DMS are envisioned, as well as 17 CCTV, 31 vehicle detectors, 16 AVI E-ZPass tag readers, and communications upgrades.

**I-476 (I-95 to St. David's Interchange)**

The I-476 reconstruction has already been awarded to a contractor for construction. As part of the I-476 RES project, several ITS devices are designed for deployment to provide full coverage along the I-476 corridor. However, the design did not include DMS signs and tag readers between I-95 and St. David's interchange. This project will design DMS signs and tag readers between I-95 and St. David's interchange, which will provide complete coverage along the I-476 corridor. 8 DMS are envisioned, as well as 13 AVI E-ZPass tag readers and communications upgrades.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	NHPP												
		0	0	0	0	0	0	0	0	0	0	0	0
		<b>Total FY2017-2020</b>			0	<b>Total FY2021-2024</b>			0	<b>Total FY2025-2028</b>			0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 84318**      *CAQ Reserve Line Item*

**LIMITS** Region-wide No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:NRS

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:**

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Reserve Line Item

**PennDOT Improvement:** Reserve Line Item

**NHPP:**

This project number serves as a placeholder for unprogrammed funds and serves as a fiscal constraint balancing mechanism for project actions that occur during TIP Modifications and Amendments after a TIP is adopted.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	CAQ												
CON	CAQ												
CON	CAQ			1,561									
CON	CAQ				779								
CON	CAQ					31,789							
CON	CAQ						24,946						
CON	CAQ							32,289					
CON	CAQ								32,289				
CON	CAQ									32,289			
CON	CAQ										32,289		
CON	CAQ											32,289	
CON	CAQ												32,289
		0	0	1,561	779	31,789	24,946	32,289	32,289	32,289	32,289	32,289	32,289
<b>Total FY2017-2020</b>		2,340		<b>Total FY2021-2024</b>		121,313		<b>Total FY2025-2028</b>		129,156			

**MPMS# 84457**      *Signal Retiming Program*

**LIMITS** Region-wide No Let Date

**IMPROVEMENT** Signal/ITS Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X1

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** TWB/V. Fleysh

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Safety Improvement

**PennDOT Improvement:** Safety Improvement

**NHPP:**

This signal re-timing program provides for the evaluation of existing signals along an identified corridor, with the goal of improving traffic operations along said corridor through revised signal timing plans. The program was implemented first using corridors identified in the City of Philadelphia, with the goal of expanding a successful program to other counties. The selected vendor would collect current traffic data, compare it against the functioning signal timing, and prepare and implement a revised signal timing plan on approval of the PennDOT's District 6.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
PRA	CAQ	350											
PRA	CAQ		350										
PRA	CAQ			350									
		350	350	350	0	0	0	0	0	0	0	0	0
<b>Total FY2017-2020</b>		1,050		<b>Total FY2021-2024</b>		0		<b>Total FY2025-2028</b>		0			

# DVRPC FY 2017-2020 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

**MPMS# 86077**      *Enhance and Maintain Travel Forecasting Tools - DVRPC*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:**

**FC:**

AQ Code:X1

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** James Mosca

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Study Phase of Project

**PennDOT Improvement:** Study Phase of Project

**NHPP:**

DVRPC continually strives to keep its travel simulation models up to date to insure the accuracy of travel forecasts and to respond to new forecasting requirements associated with the FTA New Starts program, FHWA conformity demonstration requirements, and EPA clean air amendments and other environmental regulations. DVRPC's travel simulation process requires periodic updating. This includes updating the travel simulation models, the software that runs the models, and the data that the models are based on. This project will make upgrades in all three areas. The travel models will be upgraded to bring them in line with the state of the art/science of demand modeling. The various data required to operate, calibrate, and validate the model, including socioeconomic data, traffic data, and travel surveys, will be updated as well. This activity is a component of the DVRPC Work Program (UPWP).

		<b>TIP Program Years (\$ 000)</b>														
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028			
PRA	TOLL															
PRA	STU	454														
PRA	TOLL															
PRA	STU		454													
		454	454	0	0	0	0	0	0	0	0	0	0			
		<b>Total FY2017-2020</b>			<b>908</b>				<b>Total FY2021-2024</b>				<b>0</b>			
		<b>Total FY2025-2028</b>						<b>0</b>								



# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 89337 *Bridge Rehab Group R*

New

**LIMITS**

Actl Let Date: 2/16/2017

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:**

FC:

AQ Code:S19

**PLAN CENTER:** Suburban Center

IPD: 2

**PROJECT MANAGER:** HNTB/NV

**CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

Nine (9) structurally deficient bridges in Bucks, Chester and Montgomery Counties will be rehabilitated. Improvements are to include bridge deck repairs, latex concrete overlays, and structure repairs with minimal roadway improvement. An estimated service life extension of fifteen (15) years is anticipated.

The bridges are as follows:

Chester County:

- 1) US 1 Bypass (SB) over Church Road (Bridge Key 9907) in New Garden Township;
- 2) University Road over US 1 Bypass (Bridge Key 10575) in Upper Oxford Township;
- 3) Hayesville Road (T342) over US 1 Bypass (Bridge Key 9891) in Lower Oxford Township;

Montgomery County:

- 4) Cowpath Road over east Branch Perkiomen Creek (Bridge Key 27542) in Franconia Township;
- 5) Farmington Avenue over PA 100 (Bridge Key 27862) in Pottsgrove Township
- 6) Gypsy Lane (T711) over Schuylkill Expressway (Bridge Key 27239) in Upper Merion Township;
- 7) Spring Garden Street over Schuylkill Expressway (Bridge Key 27254) in West Conshohocken Borough.

Bucks County:

- 8) Thatcher Road over Tohickon Creek (Bridge Key 7413) in Richland Township;
- 9) Thatcher Road over Kimples Creek (Bridge Key 7414) in Haycock Township.

Work to be performed will additionally include District-wide "On-Demand" bridge repairs. The scope of work will not change the typical section of the roadways or increase their capacities. A final alternative for bridge rehabilitation or replacement is determined upon federal National Environmental Policy Act (NEPA) or state Environmental Determination Documentation clearance.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	185	2,350												
CON	185		2,950											
		2,350	2,950	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			5,300	Total FY2021-2024				0	Total FY2025-2028			0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 92182** *Expressway Service Patrol - Suburban Counties (2013-2016)*

**LIMITS** I-476, US 202, US 422, I-95, I-76, PA 309, and US 30 in Bucks, Chester, Delaware, and Montgomery CO

No Let Date

**IMPROVEMENT** Signal/ITS Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S7

**PLAN CENTER:**

IPD: 1

**PROJECT MANAGER:** Gannett/V. Genua

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Safety Improvement

**PennDOT Improvement:** Safety Improvement

**NHPP:**

This project is a breakout of MPMS# 88616, and will operate in the suburban counties of Bucks, Chester, Delaware, and Montgomery as part of the Expressway Service Patrol contract for an additional two years. The program will provide for the operation of emergency service patrols on congested state highways to detect and clear incidents rapidly by providing emergency assistance to stranded motorists. Approximately half of all delays experienced by highway users in congested areas are caused by traffic accidents, vehicle breakdowns, and other incidents. Prompt incident management programs such as this, can reduce delay's significantly. Service will be provided on 50 linear miles including: I-76 from Philadelphia to PA Turnpike; I-95 from the New Jersey State Line to the Bucks County line; I-476 from I-95 to the PA Turnpike; US Route 202 from I-76 to US 30; US Route 422 from Route 202 to Royersford; PA 309 from PA 63 to Easton Road; and US 30 from Business Route 30 to PA 10.

A separate contract for the Philadelphia Expressway Service Patrol (MPMS #91490) is currently programmed on the DVRPC TIP and utilizes federal funding.

**TIP Program Years (\$ 000)**

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	TOLL													
CON	STP	1,875												
CON	NHPP	317												
CON	TOLL													
CON	NHPP		1,875											
CON	TOLL													
CON	NHPP			1,875										
CON	NHPP				1,558									
		<b>2,192</b>	<b>1,875</b>	<b>1,875</b>	<b>1,558</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
		<b>Total FY2017-2020</b>			<b>7,500</b>	<b>Total FY2021-2024</b>				<b>0</b>	<b>Total FY2025-2028</b>			<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 92184 Adj Box Beam Grp (J)

Return

LIMITS Bucks: Falls, Northampton and Lower Southampton Townships

Actl Let Date: 1/8/2015

IMPROVEMENT Bridge Repair/Replacement

MUNICIPALITIES: Falls Township; Northampton Township; Radnor Township; Cheltenham FC:

AQ Code:S19

PLAN CENTER:

IPD:

PROJECT MANAGER: George Dunheimer ADE CONSTR CMP:

PennDOT Class: Bridge Restoration

PennDOT Improvement: Bridge Restoration

NHPP: Y

Bridges to be worked on under Group J are:

- 1)Tullytown Road(SR 0013) over branch of Martins Creek, in Falls Township, Bucks County - Superstructure Replacement
- 2)Chinquapin Road(SR 2025) over Ironworks Creek, in Northampton Township, Bucks County - Superstructure Replacement
- 3)Bryn Mawr Avenue(SR 1032) over Ithan Creek, in Radnor Township, Delaware County - Superstructure Replacement
- 4)Skeppack Pike(SR 0073) over Perkiomen Creek in Perkiomen Township, Montgomery County - Superstructure Replacement
- 5)New Second Street(SR 2060) over Tacony Creek in Cheltenham Township, Montgomery County - Superstructure Replacement
- 6) Drainage improvements for the SR 611 (Broad Street) Bridge over Roosevelt Boulevard (US 1) in Philadelphia
- 7) Sidewalk repairs for SR 32 (Main Street) bridge over Aquetong Creek in New Hope, Bucks County
- 8) Parapet capstone repairs for SR 1013 (Dark Hollow Road) bridge over Tohickon Creek in Tinicum Township, Bucks County

Along with District-wide "On Demand" bridge repairs.

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	581	200												
CON	581		500											
		200	500	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			700	Total FY2021-2024				0	Total FY2025-2028			0

# DVRPC FY 2017-2020 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 95447** *County Bridge Line Item*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S19

**PLAN CENTER:** Rural Center; Town Center

IPD:

**PROJECT MANAGER:** L. Guarini

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Bridge Replacement

**PennDOT Improvement:** Bridge Replacement

**NHPP:**

This line item sets aside funding allocated for county owned bridges that are in need of repair in the DVRPC region. Funds will be broken out and drawn down at the appropriate time for projects that were selected in the fall of 2012 (Round 1), and summer of 2016 (Round 2). Projects were selected for using 20% local match. State or federal shares will be programmed as appropriate.

Woodland Avenue over SEPTA (MPMS #98232) was programed with 100% federal funds, for preliminary engineering, final design, and construction to allow SEPTA to manage the project on behalf of the City of Philadelphia. This project was drawn down in the FY2013 TIP.

Anticipated programming and costs of projects include:

Round 1 (fall 2012 selections):

#### Bucks County

-Clymer Avenue Bridge over Mill Creek (MPMS #92872), West Rockhill Township, FY14 FD \$59,000, FY14 CON \$1,194,000. Total cost \$1,253,000. This is a retro-reimbursement project. Drawn down in FY14 of the FY2013 TIP.

-Branch Road over E. Branch Perkiomen Creek, (MPMS #102666), Bridge #239, Bridge ID # 09700904310239, East Rockhill Twp, PE \$10,000, FD \$60,000, Construction \$535,000. The total cost of this project is \$605,000. This is a retro-reimbursement project. Drawn down in FY15 of the FY2015 TIP.

-Quarry Road over Morris Run, (MPMS #102667), Bridge #244, Bridge ID #09700904210244 PE \$5,000, FD \$25,000, Construction \$335,000. The total cost of this project is \$365,000. This is a retro-reimbursement project. Drawn down in FY15 of the FY2015 TIP.

-Strock's Grove Road Bridge over Beaver Creek Bridge (MPMS #98221), Nockamixon Township, FY16 PE \$300,000, FY19 FD \$375,000, FY21 ROW \$90,000, FY22 UTL \$50,000, FY24 CON \$2,000,000. The total cost of this project is \$2,630,000.

#### Chester County

-Sunnyside Road Bridge over East Penn Railway (MPMS #78521) in Penn Township FY14 FD \$120,000, FY14 ROW \$31,000, FY14 CON \$1,021,000. The total cost of the project is \$1,172,000. This is a retro-reimbursement project. Drawn down in FY14 of the FY2013 TIP.

-Creek Road Bridge over Pickering Creek (MPMS #98223) in Schuylkill Township, FY14 PE \$300,000, FY15 FD \$300,000, FY20 ROW \$75,000, FY22 CON \$1,904,000. The total cost of this project is \$2,579,000.

-Spring City Road over Stony Run (MPMS #98224) in East Pikeland Township, FY15 PE \$300,000, FY18 FD \$200,000, FY20 ROW \$40,000, FY22 CON \$1,400,000. The total cost of this project is \$1,940,000.

#### Delaware County

-Michigan Avenue over Little Crum Creek (MPMS #98216) in Ridley Township, FY14 PE \$350,000, FY17 FD \$250,000, FY17 ROW \$50,000, FY17 UTL \$50,000, FY19 CON \$2,200,000. The total cost of this project is \$2,900,000.

-Hilldale Bridge (MPMS #98217) in Lansdowne Borough, FY16 PE \$410,000, FY18 FD \$300,000, FY18 ROW \$50,000, FY18 UTL \$50,000, FY20 CON 2,850,000. The total cost of this project is \$3,660,000.

-South Avenue over Muckinipattis Creek (Mulford Bridge) (MPMS #98218) in Glenolden Borough, FY17 PE \$400,000, FY18 FD \$300,000, FY18 ROW \$50,000, FY18 UTL \$50,000, FY20 CON \$2,900,000. The total cost of this project is \$3,700,000.

#### Montgomery County

-Butler Pike over Prophecy Creek (MPMS #98225) in Upper Dublin Township, FY14 PE \$350,000, FY18 FD \$300,000, FY21 ROW \$25,000, FY22 UTL \$50,000, FY24 CON \$850,000. The total cost of this project is \$1,575,000

-Maple Avenue Bridge (MPMS #98226) in Hatfield Township, FY16 FD \$143,000, FY16 CON \$432,000. The total cost of this project is \$575,000. This is a retro-reimbursement project. Drawn down in FY15 of the FY2015 TIP.

-Allendale Road Bridge (MPMS #98227) in Upper Merion Township FY16 FD \$350,000, FY16 CON \$650,000. The total cost of this project is \$1,000,000. This is a retro-reimbursement project. Drawn down in FY15 of the FY2015 TIP.

-Store Road Bridge (MPMS #98228) in Lower Salford Township FY16 PE \$11,000, FY16 FD \$80,000, FY16 CON \$300,000. The total cost of this project is \$391,000. This is a retro-reimbursement project. Drawn down in FY16 of the FY2015 TIP.

#### City of Philadelphia

-59th Street over Amtrak (MPMS #98229) FY14 PE \$960,000, FY18 FD \$640,000, FY24 CON \$8,000,000. The total cost of this project is \$9,600,000;

-Woodland Avenue over SEPTA (MPMS #98232) FY14 PE of \$480,000, FY15 FD \$320,000, FY18 CON \$952,000, FY19 CON \$2,000,000,

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

FY20 CON \$464,000, FY21 CON \$584,000. The total cost of this project is \$4,800,000. Drawn down in FY14 of the FY2013 TIP.  
 -Tabor Road over Tacony Creek (MPMS #98230) FY15 PE \$240,000, FY18 FD \$160,000, FY24 CON \$2,000,000. The total cost of this project is \$2,400,000.

Round 2 (summer 2016 selections):  
 MPMS #s will be created once invoices are received by PennDOT.

#### Bucks County

-Milford Square Pike over Unami Creek - CB #252 (MPMS #TBD), Milford Township,  
 PE \$15,000, FD \$50,000, CON \$550,000. Total cost \$400,000. This is a retro-reimbursement project.  
 -Frosty Hollow Road over Mill Creek - CB #15 (MPMS #TBD), Middletown Township,  
 PE \$25,000, FD \$75,000, ROW \$25,000, CON \$550,000. Total cost \$675,000. This is a retro-reimbursement project.  
 -Mill Creek Road over Martins Creek - CB #250 (MPMS #TBD), Falls Township,  
 PE \$75,000, FD \$250,000, ROW \$50,000, CON \$2,200,000. Total cost \$2,625,000. This is a retro-reimbursement project.

#### Chester County

-State Street in Avondale - CB #289 (MPMS #TBD), Avondale Borough,  
 PE \$100,000, FD \$250,000, ROW \$20,000, UTL \$150,000 CON \$1,800,000. Total cost \$2,320,000. This is a retro-reimbursement project.  
 -Mill Road in Tredyffrin Twp - CB #167 (MPMS #TBD), Tredyffrin Township,  
 Study \$150,000, PE \$300,000, FD \$300,000, ROW \$75,000, UTL \$100,000, CON \$2,000,000. Total cost \$2,925,000. This is a retro-reimbursement project.  
 -Bertolet School Road - CB #196 (MPMS #TBD), East Vincent Township,  
 Study \$200,000, PE \$450,000, FD \$300,000, ROW \$75,000, UTL \$100,000, CON \$2,775,000. Total cost \$3,900,000. This is a retro-reimbursement project.

#### Delaware County

-Paper Mill Road over Carby Creek (Worrall Bridge) - CB #221 (MPMS #TBD), Newtown Township,  
 PE \$200,000, FD \$100,000, ROW \$15,000, CON \$1,100,000. Total cost \$1,415,000. This is a retro-reimbursement project.  
 -Fox's Bank Bridge - CB #94 (MPMS #TBD), Middletown Township,  
 PE \$400,000, FD \$400,000, ROW \$50,000, CON \$2,500,000. Total cost \$3,350,000. This is a retro-reimbursement project.

#### Mongtomgery County

-Moreland Avenue over Branch Pennypack Creek - CB #38 (MPMS #TBD), Hatboro Borough,  
 PE \$350,000, FD \$200,000, ROW \$60,000, UTL \$40,000, CON \$2,500,000. Total cost \$3,150,000. This is a retro-reimbursement project.  
 -Easton Road over Branch Tacony Creek - CB #268 (MPMS #TBD), Cheltenham Township,  
 PE \$350,000, FD \$200,000, ROW \$60,000, UTL, \$40,000, CON \$2,550,000. Total cost \$3,200,000. This is a retro-reimbursement project.  
 -Moyer Road over East Branch Perkiomen Creek - CB #262 (MPMS #TBD), Upper Salford Township,  
 PE \$350,000, FD \$250,000, ROW \$25,000, UTL, \$20,000, CON \$4,355,000. Total cost \$5,000,000. This is a retro-reimbursement project.

#### City of Philadelphia

-MLK Drive over Schuylkill River - (MPMS #108129), City of Philadelphia,  
 PE \$600,000, FD \$400,000, CON \$5,000,000. Total cost \$6,00,000.  
 -Falls Bridge over Schuylkill River - (MPMS #108099), City of Philadelphia,  
 PE \$1,200,000, FD \$800,000, CON \$10,000,000. Total cost \$12,000,000.

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
PE	BOF	1,000											
PE	183												
PE	LOC	452											
PE	BOF		1,600										
PE	LOC		462										
FD	BOF	560											
FD	183												
FD	LOC	140											
FD	BOF		970										
FD	183		2										
FD	LOC		494										
FD	183			46									
FD	LOC			399									
FD	183					500							

# DVRPC FY 2017-2020 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

FD	LOC					2,000							
ROW	183												
ROW	LOC	15											
ROW	183		1										
ROW	LOC		69										
ROW	183			52									
ROW	LOC			13									
ROW	183					400							
ROW	LOC					100							
UTL	183												
UTL	LOC	20											
UTL	183												
UTL	LOC		191										
UTL	183			40									
UTL	LOC												
UTL	183					320							
UTL	LOC					80							
CON	BOF	107											
CON	183												
CON	LOC	4											
CON	183												
CON	LOC												
CON	183			132									
CON	LOC			850									
CON	BOF				4,851								
CON	183				1,307								
CON	LOC				2,388								
CON	BOF					1,720							
CON	183					1,763							
CON	LOC					1,696							
CON	BOF						1,900						
CON	183						4,666						
CON	LOC						3,061						
CON	BOF							2,244					
CON	183							2,280					
CON	LOC							1,761					
CON	183								5,737				
CON	581								1,828				
CON	LOC								1,434				
CON	183									10,489			
		<b>2,298</b>	<b>3,789</b>	<b>1,532</b>	<b>8,546</b>	<b>6,079</b>	<b>12,127</b>	<b>6,285</b>	<b>8,999</b>	<b>10,489</b>	<b>0</b>	<b>0</b>	<b>0</b>
		<b>Total FY2017-2020</b>				<b>Total FY2021-2024</b>				<b>Total FY2025-2028</b>			
		<b>16,165</b>				<b>33,490</b>				<b>10,489</b>			

# DVRPC FY 2017-2020 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 96072 Ches/Del/MontCo Deck Seal

Return

LIMITS

No Let Date

IMPROVEMENT Bridge Repair/Replacement

MUNICIPALITIES: Various

FC:

AQ Code:S10

PLAN CENTER:

IPD:

PROJECT MANAGER: George Dunheimer ADE CONSTR CMP:

PennDOT Class: Bridge Preservation - Federal PennDOT Improvement: Bridge Preservation - Federal

NHPP: Y

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	TOLL													
CON	NHPP	28												
		28	0	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			28	Total FY2021-2024				0	Total FY2025-2028			0

MPMS# 97311 Transportation Community Development Initiative (TCDI) Administration

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:X1

PLAN CENTER:

IPD:

PROJECT MANAGER: CMP: Not SOV Capacity Adding

PennDOT Class: Bicycle/Pedestrian PennDOT Improvement: Bicycle/Pedestrian

NHPP:

This project is for the administration of Transportation Community Development Initiative (TCDI) projects in the Pennsylvania Subregion of DVRPC, which includes Bucks, Chester, Delaware, and Montgomery Counties and The City of Philadelphia. The funding will help provide for the planning, analysis, or design initiatives which enhance the regional transportation system.

This project is a breakout of MPMS# 64652.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	TOLL													
PRA	STU	120												
PRA	TOLL													
PRA	STU		120											
		120	120	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			240	Total FY2021-2024				0	Total FY2025-2028			0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 102105** *Municipal Bridge Line Item*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S19

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** L. Guarini

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Reserve Line Item

**PennDOT Improvement:** Reserve Line Item

**NHPP:**

This line item will provide funds for rehabilitation or replacement of municipal bridges that are identified through a regional review and selection process. Projects may be considered for retroactive reimbursement. A non-traditional, retroactive reimbursement process allows a municipality to perform work to fix or replace a bridge using local funds, and subsequently be reimbursed by PennDOT with state funds. Projects for retroactive reimbursement must be selected and approved by the region before a commitment of retroactive reimbursement would be made.

Twelve (12) projects requesting \$10.6 million for reimbursement at the time of application, selection, and approval by the DVRPC Board are shown below. Funding listed below represents the total project cost estimate at the time of selection and approval, except for Dowling Forge Bridge over Shamona Creek (item #36 below).

**Bucks County**

- (1) Rockhill Road Bridge over Three Mile Run in East Rockhill Township - \$1,059,094 (\$847,275 State 183/\$211,819 Local) (Bridge Key 7599) - MPMS #86209 - Construction Completed
- (2) Forsythia Crossing over Mill Creek (aka Forsythia Gate Bridge) in Middletown Township - \$394,133 (\$315,306 State/\$78,827 Local) (Bridge Key 48823) - MPMS #103828

**Chester County**

- (3) Howellville Road Bridge over Norfolk Southern Corp. in Tredyffrin Township- \$2,100,000 (\$1,680,000 State 183/\$420,000 Local) (Bridge Key 10821) - MPMS #14363;
- (4) Kulp Road Bridge over Pigeon Creek in East Coventry Township - \$675,000 (\$540,000 State 183/\$135,000 Local) (Bridge Key 10774) - MPMS #86293;
- (5) East Boot Road Bridge over Ridley Creek in East Goshen Township \$500,000 (\$400,000 State 183/\$100,000 Local)(Bridge Key 10781) - MPMS #103573 - Construction Completed;
- (6) Dowlin Forge Bridge over Shamona Creek in Uwchlan Township \$400,000 (\$320,000 State 183/\$80,000 Local) (Bridge Key 10829) - MPMS #103574 - Construction Completed.

**Delaware County**

- (7) South Swarthmore Ave. Bridge over Stoney Creek in Ridley Township \$1,084,000 (\$867,200 State 183/\$216,800 Local) (Bridge Key 15432) - MPMS #104196;
- (8) Bullens Lane Bridge over Crum Creek in Ridley Township - \$980,000 (\$784,000 State 183/\$196,000 Local) (Bridge Key 15433) - MPMS #103573.

**Montgomery County**

- (9) Virginia Drive over Pine Run Bridge in Upper Dublin Township - \$2,165,000 (\$1,732,000 State 183/\$433,000 Local) (Bridge Key 28046) - MPMS #103341 - Construction Completed;
- (10) Virginia Drive over Pine Run Bridge in Upper Dublin Township - \$1,850,000 (\$1,480,000 State 183/\$370,000 Local) (Bridge Key 28044) - MPMS #103340 - Construction Completed;
- (11) Walnut St. Bridge over West Branch of Neshaminy Creek in Hatfield Township - \$1,613,000 (\$1,290,400 State 183/\$322,600 local) (Bridge Key 28019) - MPMS #103466 - Construction Completed;
- (12) County Line Road Bridge in Douglass Township - \$594,500 (\$475,600 State 183/\$118,900 local) (Bridge Key 28052) - MPMS #16257.

**TIP Program Years (\$ 000)**

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	183	1,148											
CON	LOC	361											
CON	183												
CON	LOC		463										
CON	183			179									
CON	LOC			495									
CON	183				1,900								
CON	LOC				1,000								
CON	183					1,600							



# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

CON LOC					400																
CON 183						1,283															
CON LOC						378															
CON 183							1,149														
CON LOC							218														
CON 183								1,600													
CON LOC								336													
CON 183												875									
<b>Total FY2017-2020</b>				<b>1,509</b>	<b>463</b>	<b>674</b>	<b>2,900</b>	<b>Total FY2021-2024</b>				<b>2,000</b>	<b>1,661</b>	<b>1,367</b>	<b>1,936</b>	<b>Total FY2025-2028</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>875</b>
						<b>5,546</b>							<b>6,964</b>								<b>875</b>

**MPMS# 102106 Structurally Deficient Bridge Line Item**

LIMITS Region Counties and City of Philadelphia

No Let Date

IMPROVEMENT Bridge Repair/Replacement

MUNICIPALITIES: Various

FC:

AQ Code:S19

PLAN CENTER:

IPD:

PROJECT MANAGER: L. Guarini

CMP: Not SOV Capacity Adding

PennDOT Class: Reserve Line Item

PennDOT Improvement: Reserve Line Item

NHPP:

This line item is a set aside for rehabilitation or replacement of candidate structurally deficient bridges that have been identified in the DVRPC region.

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028						
CON	BOF	365																	
CON	185					1,249													
CON	BOF						10,000												
CON	185						479												
CON	BOF							10,000											
CON	BOF								12,244										
CON	BOF									12,244									
CON	185									1,588									
CON	BOF										12,244								
CON	BOF											12,244							
CON	581												3,345						
CON	185												11,603						
CON	BOF												12,244						
CON	STP												8,636						
CON	581												1,807						
CON	185												28,341						
<b>Total FY2017-2020</b>		<b>365</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>Total FY2021-2024</b>				<b>1,249</b>	<b>10,479</b>	<b>10,000</b>	<b>12,244</b>	<b>Total FY2025-2028</b>		<b>13,832</b>	<b>12,244</b>	<b>27,192</b>	<b>51,028</b>
				<b>365</b>					<b>33,972</b>			<b>104,296</b>							

# DVRPC FY 2017-2020 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 102107** *Bridge On Demand Line Item*

**LIMITS** Region Wide

No Let Date

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:**

**FC:**

AQ Code:S19

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** L. Guarini

**CMP:**

**PennDOT Class:** Reserve Line Item

**PennDOT Improvement:** Reserve Line Item

**NHPP:**

Bridge On-Demand Reserve Line Item  
Districtwide  
Bridge Replacement/Rehabilitation/Preservation activities

#### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	185		1,500										
CON	185			239									
CON	185												
CON	185						1,249						
		0	1,500	239	0	0	1,249	0	0	0	0	0	0
		<b>Total FY2017-2020</b>		1,739		<b>Total FY2021-2024</b>		1,249		<b>Total FY2025-2028</b>		0	

**MPMS# 102132** *Roadway Departure Safety Implementation Program*

**Return**

**LIMITS** Region Wide

Actl Let Date: 6/5/2014

**IMPROVEMENT** Intersection/Interchange Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S6

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** George Dunheimer ADE CONSTR **CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

Funding will be provided to allow a District-wide Roadway Departure Implementation Plan (RDIP) to address the top ranked feasible locations within each of the eight countermeasure categories. The District will identify a typical set of improvements for each of the countermeasures from which the designer will consider and select the most appropriate, obtain PennDOT approval, and implement. Prioritization will involve a dual approach - working down the provided RDIP lists for each category, as well as focusing on RDIP locations that are also within the limits of the 225 District 6-0 locations currently identified on the statewide High Crash List.

#### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	TOLL												
CON	HSIP	392											
CON	sHSIP	430											
CON	sHSIP		5										
		822	5	0	0	0	0	0	0	0	0	0	0
		<b>Total FY2017-2020</b>		827		<b>Total FY2021-2024</b>		0		<b>Total FY2025-2028</b>		0	

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 102275 Study Line Item

LIMITS Regionwide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:X1

PLAN CENTER:

IPD:

PROJECT MANAGER: L. Guarini

CMP: Not SOV Capacity Adding

PennDOT Class: Study Phase of Project

PennDOT Improvement: Study Phase of Project

NHPP:

This line item is a set aside to address study candidates that were identified in the DVRPC region as part of the PennDOT Decade of Investment. As the studies, results, and recommendations are more completely understood, the recommendations can be considered for advancement to preliminary engineering.

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PE	581			100										
PE	581				500									
PE	581					670								
PE	581						330							
PE	581							1,000						
PE	581												4,300	
		0	0	100	500	670	330	1,000	0	0	0	0	4,300	
		Total FY2017-2020			600	Total FY2021-2024				2,000	Total FY2025-2028			4,300

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 102318 *Bridge Group M*

New

LIMITS

No Let Date

IMPROVEMENT Bridge Repair/Replacement

MUNICIPALITIES: Various

FC:

AQ Code:S19

PLAN CENTER:

IPD:

PROJECT MANAGER: Gannett/V. Genua

CMP:

PennDOT Class:

PennDOT Improvement:

NHPP:

Five bridges in Bucks and Chester counties that are structurally deficient will be replaced with minimal roadway improvements. An estimated service life extension of 30 years is anticipated. The scope of work will not change the typical section of the roadways or increase their capacities.

The bridges in Bucks County are:

Dublin Pike Road over Deep Run (Bridge Key 6987) in Hilltown Township; and  
Butler Avenue over Branch of West Neshaminy Creek (Bridge Key 6913) in New Britain Township.

The bridges in Chester County are:

PA 926/West Street Road over Radley Run (Bridge Key 10284) in Thornbury Township;  
Green Valley Road over Branch of West Branch of Brandywine Creek (Bridge Key 10511) in Newlin Township; and  
Green Valley Road over Branch of West Branch of Brandywine Creek (Bridge Key 10510) in Newlin Township.

**TIP Program Years (\$ 000)**

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
ROW	STU		40										
ROW	185		10										
ROW	STU			40									
ROW	185			10									
UTL	STU	80											
UTL	185	20											
CON	185			2,000									
CON	185				1,000								
CON	185					2,200							
		100	50	2,050	1,000	2,200	0	0	0	0	0	0	0
		<b>Total FY2017-2020</b>			<b>3,200</b>	<b>Total FY2021-2024</b>			<b>2,200</b>	<b>Total FY2025-2028</b>			<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 102321** *District Wide Bridge Rehab Group Q*

**New**

**LIMITS** 232/HBQ

Actl Let Date: 4/20/2017

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S19

**PLAN CENTER:**

IPD: 6

**PROJECT MANAGER:** AECOM/K. Caparra

**CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

District Wide Bridge Rehabilitations (Group Q) consists of the following structures:

- (1) Second St Pike over Br Mill Cr (BMS #09-0232-0180-2404) - \$500,000 preliminary cost estimate
- (2) Hares Hill Road over French Creek (BMS #15-1045-0020-1201) - \$400,000 preliminary cost estimate
- (3) Forty Foot Road bridge over Skippack (BMS #46-1006-0020-0000) - \$600,000 preliminary cost estimate
- (4) Baltimore Pike/Darby Creek (BMS #23-2016-0170-0000) - \$750,000 preliminary cost estimate
- (5) State Rd over Cobbs Creek (BMS #23-2026-0080-3034) - \$500,000 preliminary cost estimate
- (6) Wissahickon Ave/Monoshone Creek (BMS #67-4003-0040-1932) - \$750,000 preliminary cost estimate

#### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
UTL	TOLL													
UTL	STP	50												
CON	185	1,750												
CON	185		2,222											
CON	185			2,054										
CON	185				2,473									
		<b>1,800</b>	<b>2,222</b>	<b>2,054</b>	<b>2,473</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
		<b>Total FY2017-2020</b>			<b>8,549</b>	<b>Total FY2021-2024</b>				<b>0</b>	<b>Total FY2025-2028</b>			<b>0</b>

**MPMS# 102572** *High Friction Surfaces*

**Return**

**LIMITS** Various high-crash roadway curves in District 6-0

Actl Let Date: 7/3/2014

**IMPROVEMENT** Intersection/Interchange Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S2

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** George Dunheimer ADE CONSTR **CMP:** Not SOV Capacity Adding

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

This project was selected by District 6-0 Traffic Unit and Bureau of Highway Traffic Safety District and approved for HSIP funding by PennDOT's Central Office Safety Engineering and Risk Management section among a series of low/mid-cost systematic safety improvement projects. High Friction Surface projects were approved based on an analysis of crash locations that have a history of slide-off-the-road crashes. Funds will provide for the installation of high friction surfaces (HFS) (or the highest level of skid resistance) on top of existing roadway to decrease the number of crashes along high crash roadway curves throughout the DVRPC five-county region in Pennsylvania. Applying HFS contributes to vehicular safety by helping motorists maintain better control in dry and wet driving conditions, particularly at locations where they may brake excessively (e.g., when driving around a curve).

#### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	HSIP	11												
CON	HSIP													
		<b>11</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
		<b>Total FY2017-2020</b>			<b>11</b>	<b>Total FY2021-2024</b>				<b>0</b>	<b>Total FY2025-2028</b>			<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 102665** *Signal Upgrade Line Item*

**LIMITS** No Let Date

**IMPROVEMENT** Signal/ITS Improvements

**MUNICIPALITIES:** Various **FC:** AQ Code:NRS

**PLAN CENTER:** IPD:

**PROJECT MANAGER:** L. Guarini **CMP:** Not SOV Capacity Adding

**PennDOT Class:** Reserve Line Item **PennDOT Improvement:** Reserve Line Item **NHPP:**

Signal Upgrade Line Item will be used to help address signal retiming hardware and communication related issues that are identified during the installation and implementation of traffic signal retiming (MPMS# 84457) on Critical Corridors in the region.

TIP Program Years (\$ 000)													
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	CAQ				1,000								
		0	0	0	1,000	0	0	0	0	0	0	0	0
		<b>Total FY2017-2020</b>			<b>1,000</b>	<b>Total FY2021-2024</b>			<b>0</b>	<b>Total FY2025-2028</b>			<b>0</b>

**MPMS# 104363** *ISIP Open End Project*

**LIMITS** Region-wide **Actl Let Date:** 11/3/2016

**IMPROVEMENT** Intersection/Interchange Improvements

**MUNICIPALITIES:** Various **FC:** AQ Code:S2

**PLAN CENTER:** IPD:

**PROJECT MANAGER:** Traff/A. Patel **CMP:** Not SOV Capacity Adding

**PennDOT Class:** Safety Improvement **PennDOT Improvement:** Safety Improvement **NHPP:**

District 6-0 will advertise an Open End (Construction On-Demand) project for "Intersection Safety Implementation Plan" to address the top-ranked feasible locations within five countermeasure categories. Prioritization will involve a dual approach, working down the provided ISIP lists for each category, as well as focusing on ISIP locations that are also within the limits of the 225 District 6-0 locations currently identified on the statewide High Crash List.

TIP Program Years (\$ 000)													
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	sHSIP	2,000											
CON	sHSIP		925										
		2,000	925	0	0	0	0	0	0	0	0	0	0
		<b>Total FY2017-2020</b>			<b>2,925</b>	<b>Total FY2021-2024</b>			<b>0</b>	<b>Total FY2025-2028</b>			<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 104364** *RDIP Open End Project*

**LIMITS** Region-wide

No Let Date

**IMPROVEMENT** Intersection/Interchange Improvements

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S2

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** Traff/A. Patel

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Safety Improvement

**PennDOT Improvement:** Safety Improvement

**NHPP:**

District 6-0 will advertise an Open End (Construction On-Demand) project for "Roadway Departure Implementation Plan" to address the top-ranked feasible locations within eight countermeasure categories. Prioritization will involve a dual approach, working down the provided RDIP lists for each category, as well as focusing on RDIP locations that are also within the limits of the 225 District 6-0 locations currently identified on the statewide High Crash List.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	sHSIP	2,000											
CON	sHSIP		925										
		<b>2,000</b>	<b>925</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
		<b>Total FY2017-2020</b>		<b>2,925</b>		<b>Total FY2021-2024</b>				<b>0</b>			
										<b>Total FY2025-2028</b>			<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 104369** *Bridge Bundling 2015*

**Return**

**LIMITS** Various

No Let Date

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S19

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** Gannett/V. Genua

**CMP:** Not SOV Capacity Adding

**PennDOT Class:** Bridge Restoration

**PennDOT Improvement:** Bridge Restoration

**NHPP:**

The PennDOT Local Bridge Bundling program is a state sponsored program for local bridge projects, in which the purpose is to select and repair bridges that have the same structure type with the same design requirements and are located geographically close to each other in order to induce cost and time savings.

PennDOT has made a total of \$4,700,000 federal sSTP funds for 15 bridges in the DVRPC Pennsylvania region that are expected to be let for construction in October of 2015 and are listed as follows:

**Bucks County:**

1. Willow Road Bridge (Bridge Key 7629) in Northampton Township
2. Moyer Road Bridge (Bridge Key 7613) in Hilltown Township
3. Fredericks Bridge 14J08 (Bridge Key 7516) in East Rockhill Township
4. Warrington Township 33J02 (Bridge Key 7531) in Warrington Township
5. Alden Avenue 38H05 (Bridge Key 7606) in Falls Township
6. Springfield Street (Bridge Key 7643) in Springfield Township
7. Snowball Gate 42H02 (Bridge Key 7490) in Middletown Township
8. Perkasie Boro 20H02 (Bridge Key 7482) in Perkasie Borough

**Delaware County:**

9. Paper Mill Road Road (Bridge Key 15434) in Springfield Township

**Montgomery County:**

10. Easton Road (Bridge Key 27989) in Cheltenham Township
11. Oreland Mill Bridge 31B09 (Bridge Key 28042) in Springfield Township
12. Trewigtown Road 17A06 (Bridge Key 28018) in Hatfield Township
13. Keebler Road Bridge (Bridge Key 28125) in Upper Merion Township
14. Violet Lane Bridge (Bridge Key 47474) in Lower Merion Township
15. Remington Road Bridge (Bridge Key 28022) in Lower Merion Township

Construction for the Montgomery County bridges are funded in MPMS #105127

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PE	BOF													
CON	TOLL													
CON	BOF		34											
		0	34	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			34	Total FY2021-2024				0	Total FY2025-2028			0



# DVRPC FY 2017-2020 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 104639** *Travel Monitoring*

**LIMITS** Regionwide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X1

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** James Mosca

**CMP:**

**PennDOT Class:** Planning/Research/Administratio **PennDOT Improvement:** Planning/Research/Administration

**NHPP:**

This continuing project collects and processes travel data, the primary form being traffic counts, including hourly and 48 hour traffic volumes, for selected locations on the regional highway network. Data collected will provide input to VMT forecasting, the Traffic Monitoring System (TMS), the Congestion Management System (CMS), travel simulation models, individual project level analysis and traffic monitoring and trend analysis. This information is vital to all project studies that address highway deficiencies and proposed solutions. In addition, DVRPC facilitates the periodic review and revision of the highway functional classification system. Traffic count information from the database may be queried at <http://www.dvrpc.org/traffic>. To facilitate uninterrupted data collection, it will be necessary to procure new counting equipment, supplies, and repairs as needed.

**Tasks:**

- 1) Coordinate with PennDOT and member governments to review traffic count locations.
- 2) Establish weekly schedules, manpower assignments, and control procedures.
- 3) Collect traffic data at approximately 3,000 selected locations.
- 4) Upload data into the DVRPC Traffic Count system, process county, edit for quality control, and develop annual average daily traffic volumes.
- 5) Maintain and further automate traffic data systems and procedures to enhance productivity, including data obtained by third parties via remote sensors, etc.
- 6) Submit counts collected during the year electronically by specific deadlines established by PennDOT and member governments.
- 7) Input traffic count data files into the comprehensive regional GIS-T database for sharing over the internet.
- 8) Maintain an inventory of data collection and safety equipment, including purchasing new equipment with enhanced technology and capability, purchasing needed supplies such as road tube, and procuring necessary repairs if existing equipment gets damaged.
- 9) Collect travel data from non-highway modes, including pedestrian, bicycle and public transportation travel system characteristics and user traits.
- 10) DVRPC will also coordinate with PennDOT, the counties, and cities on the collection and validation of data on the local transportation asset inventory: locally owned public roads and bridges (eight to 20-foot spans), including georeferencing data.

**Products:**

- 1) Computer database file containing new and updated traffic counts
- 2) Transmittals of traffic data to DOTs, member governments, and interested parties

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	STU	120												
PRA	TOLL													
PRA	TOLL													
PRA	STU		120											
		120	120	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			240	<b>Total FY2021-2024</b>				0	<b>Total FY2025-2028</b>			0

# DVRPC FY 2017-2020 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 104794** *Masonry Stone Arch Bridges – Group T*

**New**

**LIMITS** Various locations Districtwide

No Let Date

**IMPROVEMENT** Bridge Repair/Replacement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:S19

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** AECOM/K. Caparra

**CMP:** Not SOV Capacity Adding

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

The proposed scope of work for these bridges includes reconstruction of the arch barrel, spandrel walls, and wing walls as needed; excavation and replacement of the arch backfill with lightweight concrete; and reconstruction of the stone masonry parapets with reinforced concrete cores tied to a full-width moment slab. The approach and bridge roadways will be resurfaced and guiderail attachments will be replaced. The project will also include the installation of scour protection measures where needed. Some of the bridges will require additional work including the resetting of capstones, installation of weep holes, anchoring of bricks with helical rods, rebuilding of collapsed masonry buttresses, replacement of sidewalks, and completion of concrete repairs.

- The bridge in Chester County is: Mansion Road over the South Branch of French Creek
- The bridges in Delaware County are: Bryn Mawr Avenue over a Branch of Meadow Brook Creek; In addition to this structure and the bridge noted below, another structure that is approximately six feet in length will also be rehabilitated with this bridge package. There is no BMS information on this structure because PennDOT does not track structures less than 12 feet in length; Bryn Mawr Avenue over Meadow Brook Creek
- The bridges in Montgomery County are: Byberry Road over Southampton Creek; Greenwood Avenue over a Branch of Rock Creek; Eagleville Road over Eagleville Run
- The bridge in the City of Philadelphia is: Frankford Avenue over Pennypack Creek

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
FD	185	150												
CON	STU		2,000											
CON	STP		2,500											
CON	185		1,125											
CON	STP			500										
CON	STU			1,874										
CON	185			875										
		<b>150</b>	<b>5,625</b>	<b>3,249</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	
		<b>Total FY2017-2020</b>			<b>9,024</b>	<b>Total FY2021-2024</b>				<b>0</b>	<b>Total FY2025-2028</b>			<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 105291**    *The Circuit Line Item*

**LIMITS** No Let Date

**IMPROVEMENT** Bicycle/Pedestrian Improvement

**MUNICIPALITIES:** Various **FC:** AQ Code:A2

**PLAN CENTER:** IPD:

**PROJECT MANAGER:** L. Guarini **CMP:**

**PennDOT Class:** Bicycle/Pedestrian **PennDOT Improvement:** Bicycle/Pedestrian **NHPP:**

This program provides funds for advancing the Circuit Trail Projects. Regional Trails Program funding from the William Penn Foundation was provided to design Circuit trail projects according to the PennDOT process in order to prepare them for a variety of federal and state construction funding opportunities. \$5 million in CMAQ funding will be used to advance CMAQ eligible Circuit projects to construction. The following projects are included in this line item:

- 1) Bucks - Bridge Street Crossing on D&L Towpath MPMS #105845;
- 2) Bucks - Newtown Branch Rail Trail - Southampton Twp. MPMS #105847;
- 3) Montgomery- Chester Valley Trail Extension Design Supplement for MPMS #16705;
- 4) Montgomery - Pennypack Trail Extension MPMS #105484;
- 5) Philadelphia - Pennypack Trail - State and Rhawn Crossing MPMS #105849;
- 6) Philadelphia - Lindbergh Blvd Sidepath - 84th St to John Heinz NWR MPMS #105853;
- 7) Philadelphia - Spring Garden Street Greenway MPMS #105850

\$4,000,000 TAU (Transportation Alternatives Set-Aside - Urban Allocation) has been allocated by the DVRPC Board for the Winter 2018 round of Transportation Alternatives Set-Aside selected projects to be used for regionally significant trail projects in the future, including projects in the The Circuit Line Item - MPMS #105291.

The Circuit is a 750-mile interconnected network of multi-use trails spanning Greater Philadelphia with Philadelphia and Camden as its hub, and is included in DVRPC's Long-Range Transportation Plan. Circuit trails will generally meet minimum design standards (10-foot wide, paved, and separated from traffic) to reflect their intended use as the arteries of a dedicated regional non-motorized transportation system. Circuit trails located near and connecting to downtown Philadelphia are already used heavily for transportation purposes, and the implementation of the network will further encourage the surging growth of bicycle commuting in the region. At 2.3%, Philadelphia has the highest bike-to-work percentage of the 10 largest cities in the country according to the 2013 American Community Survey.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	CAQ			2,500										
CON	CAQ				2,500									
CON	CAQ					500								
CON	CAQ						500							
		0	0	2,500	2,500	500	500	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>		<b>5,000</b>		<b>Total FY2021-2024</b>			<b>1,000</b>		<b>Total FY2025-2028</b>			<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 106295**     *RRX LED Light Installation*

**New**

**LIMITS**

No Let Date

**IMPROVEMENT** Intersection/Interchange Improvements

**MUNICIPALITIES:** Ridley Township; Philadelphia City

**FC:**

AQ Code:S8

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** MAL/M. lang

**CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

This project will install LED warning lights at crossings in the following locations:

Delaware County:

- 1) Oak Lane, SR 2015
- 2) Ashland Ave., Eddystone
- 3) South Ave. , SR 201
- 4) Amosland Ave., SR 2021
- 5) Swarthmore Ave. ,SR 2025
- 6) Fairview Rd., SR 2035
- 7) Meetinghouse Rd., SR 3012
- 8) Naamans Creek Rd., SR 491

Philadelphia:

- 9) Weccacoe Ave.
- 10) Snyder Ave., SR 2002

TIP Program Years (\$ 000)															
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028		
CON	RRX	247													
		247	0	0	0	0	0	0	0	0	0	0	0		
<b>Total FY2017-2020</b>		247			<b>Total FY2021-2024</b>				0				<b>Total FY2025-2028</b>		0

**MPMS# 106648**     *Sink Holes Line Item*

**New**

**LIMITS** District Wide

No Let Date

**IMPROVEMENT** Roadway Rehabilitation

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X13

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** L. Guarini

**CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

This is the Reserve Line Item for sink hole repairs. A sinkhole is generally a circular hole or a depression in the ground that is caused by erosion and water drainage. The size of a hole can range from a few feet to a size large enough to engulf an entire building. It can suddenly appear without warning and may continue to grow after the initial collapse. Sinkholes are naturally part of Pennsylvania's landscape called karst and are considered a serious geologic hazard in central and eastern Pennsylvania.

TIP Program Years (\$ 000)															
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028		
CON	581			443											
		0	0	443	0	0	0	0	0	0	0	0	0		
<b>Total FY2017-2020</b>		443			<b>Total FY2021-2024</b>				0				<b>Total FY2025-2028</b>		0

# DVRPC FY 2017-2020 TIP for PA

Final Version

Pennsylvania - Highway Program (Status: TIP)

## Various

MPMS# 106649 Stormwater Permits/Environmental Mitigation

New

LIMITS

No Let Date

IMPROVEMENT Roadway Rehabilitation

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLAN CENTER:

IPD:

PROJECT MANAGER: L. Guarini

CMP:

PennDOT Class:

PennDOT Improvement:

NHPP:

Reserve Line Item for Stormwater Permits

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	581		750											
		0	750	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			750	Total FY2021-2024				0	Total FY2025-2028			0

MPMS# 106651 Sign Structure Repair

New

LIMITS

No Let Date

IMPROVEMENT Roadway Rehabilitation

MUNICIPALITIES: Various

FC:

AQ Code:X11

PLAN CENTER:

IPD:

PROJECT MANAGER: L. Guarini

CMP:

PennDOT Class:

PennDOT Improvement:

NHPP:

Reserve Line Item for Sign Structure Repairs

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
CON	581													
		0	0	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			0	Total FY2021-2024				0	Total FY2025-2028			0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 106654 I-95 Transportation Demand Mgt (TMA)

New

**LIMITS**

No Let Date

IMPROVEMENT Intersection/Interchange Improvements

MRPID:65

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLAN CENTER:

IPD:

PROJECT MANAGER: L. Guarini

CMP:

PennDOT Class:

PennDOT Improvement:

NHPP:

This project will provide for coordination activities among multiple Transportation Management Associations (TMAs) in Bucks, Delaware, and Philadelphia counties to assist PennDOT with mitigating congestion on the I-95 corridor by reducing the number of drivers on the road during construction, particularly during AM and PM peak commute hours. Outreach efforts will focus on select employers with employees using the corridor; some efforts will reach those same employees directly. Outreach activities will include sharing and supplementing efforts to inform regular users of upcoming construction schedules, in addition to educating and assisting employers to help employees who are regular users with finding viable alternatives to driving alone along this corridor, utilizing Travel Demand Management (TDM) techniques.

Interstate 95 is a critical corridor for the movement of commuters and goods between the City of Philadelphia and neighboring Bucks and Delaware counties in Pennsylvania. Delays from traffic congestion, already commonplace on I-95 during peak commute times, are further exacerbated by ongoing construction work. Proactive steps are needed to ensure that the public is educated on both the nature and timing of these upcoming construction projects and made aware of alternative means of commuting that will help to lessen the impact of these projects on traffic flow, with a specific focus on employer concerns (on-time arrivals, reliable commute times, reducing use of vacation/sick time, improving employee morale, etc.).

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	TOLL													
PRA	NHPP	225												
PRA	TOLL													
PRA	STU		225											
		225	225	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			450	Total FY2021-2024				0	Total FY2025-2028			0

MPMS# 106990 District Roundabout Program

New

LIMITS Districtwide

No Let Date

IMPROVEMENT Intersection/Interchange Improvements

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLAN CENTER:

IPD:

PROJECT MANAGER: Traff/A. Patel

CMP:

PennDOT Class:

PennDOT Improvement:

NHPP:

Evaluation of roundabouts at one or more locations.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PE	sHSIP		1,000											
FD	sHSIP													
		0	1,000	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			1,000	Total FY2021-2024				0	Total FY2025-2028			0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 107524**    *Large Sign Structure Repair 3*

**New**

**LIMITS** Bucks, Delaware, Montgomery & Philadelphia Counties

Actl Let Date: 12/1/2016

**IMPROVEMENT** Roadway Rehabilitation

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X11

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** George Dunheimer ADE CONSTR    **CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

This project consists of high priority repairs to large sign structures within District 6-0 (Bucks, Delaware, Montgomery & Philadelphia Counties). The high priority maintenance items have been identified through routine inspections conducted in accordance with PennDOT's Publication 238. The goal of this project is to repair all outstanding high priority sign structures to preserve public safety.

The type of work items that are associated with this project include: replace rusted sign clips, repair bent support angles and deteriorated grout pads, close gaps between sign panels, replace missing junction box locks and hand hole screws, replace missing luminaire lenses, bulbs, and shrouds, replace sign connection hardware, remove graffiti and debris at foundations, remove rust and spot paint, replace anchor bolts, correct hole alignments and install bolts, reconnect inspection walkway chains and replace protective netting around base plates, replace missing strut end caps, secure walkway grating supports, replace damaged sections of walkway, replace missing U-bolts, and secure loose wires.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	581		1,500										
		0	1,500	0	0	0	0	0	0	0	0	0	0
		<b>Total FY2017-2020</b>		<b>1,500</b>		<b>Total FY2021-2024</b>				<b>0</b>			
						<b>Total FY2025-2028</b>				<b>0</b>			

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 107544** *Bridge Group N* **New**  
**LIMITS** No Let Date  
**IMPROVEMENT** Bridge Repair/Replacement  
**MUNICIPALITIES:** Various **FC:** AQ Code:S19  
**PLAN CENTER:** IPD:  
**PROJECT MANAGER:** Gannett/V. Genua **CMP:**  
**PennDOT Class:** **PennDOT Improvement:** **NHPP:**

Seven bridges in Bucks, Chester, and Montgomery counties that are structurally deficient will be replaced, and one bridge in Bucks County that is not structurally deficient will be rehabilitated, all with minimal roadway improvements. An estimated service life extension of 30 years for replacements and 15 years for rehabilitation is anticipated. Work will also include District-wide "On-Demand" bridge repairs. The scope of work will not change the typical section of the roadways or increase their capacities.

The bridges in Bucks County are:  
 Aquetong Road over Branch of Aquetong Creek (Bridge Key 7100) in Solebury Township;  
 Rehabilitation of Hulmeville Road over Chubb Run (Bridge Key 7222) in Middletown Township; and  
 Richlandtown Road over Cooks Creek (Bridge Key 7419) in Springfield Township.

The bridges in Chester County are:  
 Clay Creek Road over Tributary of East Branch of White Clay Creek (Bridge Key 39994) in Franklin Township;  
 Creek Road over Branch of Brandywine Creek (Bridge Key 10173) in East Brandywine Township; and  
 Baltimore Pike over Branch of Red Clay Creek (Bridge Key 10501) in New Garden Township.

The bridge in Montgomery County is:  
 Second Avenue over Branch of Mingo Creek (Bridge Key 27805) in Upper Providence Township.

		<b>TIP Program Years (\$ 000)</b>													
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028		
ROW	185				200										
UTL	185			100											
CON	185			1,000											
CON	185				1,000										
CON	185					1,000									
CON	185						1,000								
CON	185							3,000							
		0	0	1,100	1,200	1,000	1,000	3,000	0	0	0	0	0		
		<b>Total FY2017-2020</b>			<b>2,300</b>	<b>Total FY2021-2024</b>				<b>5,000</b>	<b>Total FY2025-2028</b>				<b>0</b>



# DVRPC FY 2017-2020 TIP for PA

Final Version

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 107800**    **2016 Del/Ches/Mont/ ADA Ramps**

**New**

**LIMITS** Chester, Delaware and Montgomery Counties

Est Let Date: 10/19/2017

**IMPROVEMENT** Bicycle/Pedestrian Improvement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:A2

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** Traffic/F.Hanney

**CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

This project is Design Build.This project involves the construction of ADA ramps in Delaware, Chester and Montgomery Counties. This project contains 295 ADA ramps from the District ADA Transition List. Reconstruction of curb cut ramps to latest ADA standards

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PE	581	75												
CON	STU	3,100												
		3,175	0	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			<b>3,175</b>		<b>Total FY2021-2024</b>			<b>0</b>		<b>Total FY2025-2028</b>		<b>0</b>

**MPMS# 107801**    **2016 Bucks & Montco ADA Ramps**

**New-B**

**LIMITS** Bucks & Montgomery Counties

Est Let Date: 9/28/2017

**IMPROVEMENT** Bicycle/Pedestrian Improvement

**MUNICIPALITIES:** Various

**FC:**

AQ Code:A2

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** Traffic/F.Hanney

**CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

This project is Design Build.This project involves the construction of ADA ramps in Bucks and Montgomery Counties. This project contains 114 ADA ramps from the District ADA Transition List. Reconstruction of curb cut ramps to latest ADA standards

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PE	581	75												
CON	STU	1,350												
		1,425	0	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			<b>1,425</b>		<b>Total FY2021-2024</b>			<b>0</b>		<b>Total FY2025-2028</b>		<b>0</b>

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 108534** *Regional Sidewalk Inventory*

**New**

**LIMITS** District Wide

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X1

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** Jim Mosca

**CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

To assist with planning efforts to help communities in the region become more pedestrian-friendly and accessible, this project will develop a new regional sidewalk inventory and create an online platform for a shared regional conversation on local and regional walkability.

A regional sidewalk inventory will allow DVRPC and partners to do things like map and measure the mileage, connectivity, and quality of sidewalks in the region or a local area, identify gaps where sidewalk infrastructure is not present or in poor condition, set grounded targets for sidewalk network buildout, and can serve as a starting point for the development of priorities to address sidewalk gaps in the most appropriate places. The creation of a sidewalk inventory will also allow DVRPC to better address walkability in regional performance measures, support regional asset management efforts, and will be beneficial for other planning activities like Safe Routes to School, PennDOT Connects, pedestrian safety audits, healthy communities planning, and improving safe and equitable access to transit and other essential services. A sidewalk inventory can also be used to support the creation of pilot funding programs related to improving walkability and accessibility.

The online walkability engagement tool, which will complement the sidewalk inventory, will allow regional residents to share information about sidewalk and walking conditions in their communities. Users will be able to plot their location, rate how safe they feel, and note desired improvements. The online platform will also provide an opportunity for local and regional community and advocacy groups, such as senior and disabled advocates, to gather and share the voices and needs of their constituencies. To the extent possible, the online platform will be connected with existing communication tools like the Philadelphia 311 system so that sidewalk maintenance issues reported by users will reach agencies who can address them directly.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	TOLL													
PRA	STU	392												
		392	0	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			392	<b>Total FY2021-2024</b>				0	<b>Total FY2025-2028</b>			0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 108554**    **Local Asset Data Collection - Southeast PA**

**New**

**LIMITS** Bucks, Montgomery, and Philadelphia Counties

No Let Date

**IMPROVEMENT** Other

**MUNICIPALITIES:** Various

**FC:**

AQ Code:X1

**PLAN CENTER:**

IPD:

**PROJECT MANAGER:** Jim Mosca

**CMP:**

**PennDOT Class:**

**PennDOT Improvement:**

**NHPP:**

PennDOT initiated a Local Road and Bridge data collection project to collect important data on municipal and county roadways. Working with the state's MPOs and RPOs, PennDOT's goal is to gather comprehensive information on the Commonwealth's extensive network of local roads and bridges missing from the current inventory. The supporting data that is collected will be stored in a database available to PennDOT's planning partners and counties for use in planning, programming, and other business needs.

PennDOT currently does not have complete data on "non-liquid fuel" local roadways and bridges. Non-Liquid Fuel local roads are owned and maintained by municipalities and are not funded by the liquid fuels tax. In past years, data has been collected for Chester and Delaware counties, and portions of Bucks and Montgomery counties. This year, staff will continue the data collection in Bucks and Montgomery, and may begin collecting data in the City of Philadelphia. Using existing data from PennDOT and the counties/City, DVRPC will need to field verify locations of potential public local roads and bridges. The project does not include private roads, or bridges on private roads, such as cemetery drives, private driveways, or roads used on private property such as mobile home, apartment or commercial complexes.

DVRPC staff will perform the data collection according to established methodology developed by PennDOT utilizing tablets and software provided by PennDOT. Prior to any data collection in Philadelphia, DVRPC will send a letter to the City of Philadelphia that explains the purpose of the project. DVRPC will continuously monitor progress and perform quality checks on all collected data utilizing PennDOT's web-based mapping application.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	STU	100												
PRA	LOC													
		100	0	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			100	Total FY2021-2024				0	Total FY2025-2028			0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 109842 *District 6 TSMO Support Contract (Green Light-Go)*

New

LIMITS

No Let Date

IMPROVEMENT

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLAN CENTER:

IPD:

PROJECT MANAGER: Daniel Farley

CMP: Not SOV Capacity Adding

PennDOT Class:

PennDOT Improvement:

NHPP:

The consultant will provide for the necessary operational support to Transportation Systems Management and Operations (TSMO) projects such as the I-76 Integrated Corridor Management Project. The consultant will assist Department staff with providing key oversight and assist the Department to focus on Active Arterial Traffic Management and activities in the region to improve safety and mobility. Some of the activities may include the following:

- Developing Corridor specific Traffic Signal Management Plans, Concept of Operations, and Systems Engineering Documentation.
- Assist the Department with developing and executing Memorandums of Understanding (MOU) agreements.
- Provide performance based business and functional requirements gathering,
- Provide project coordination and management of TSMO related projects and activities.
- Provide project management and construction management assistance.
- Evaluate and develop routine executive reporting utilizing data and analytical tools.
- Provide and review final design, and assist with consultation during construction.
- Provide traffic operations management and arterial timing adjustments as needed
- Prepare system engineering report in close coordination with regional ITS architecture.
- Identify performance based key objectives including but not limited to such as improving arterial travel time reliability and performance, employing travel demand management technique, communicate real time traveler information via connected vehicle technology.
- Provide technical support with the deployment of Connected Automated Vehicle (CAV) applications.
- Identify appropriate system and functional requirements including but not limited to reliable communication infrastructure, data and storage needs, hardware and software for unified command and control, adaptive and dynamic signal control, transit signal priority, emergency signal preemption, automated timing plan generators, lane reservation on arterials, automated signal performance matrices, travel time.
- Address the need for ITS devices such as CCTV, DMS and travel time system for integrated corridor management. Identify maintenance response plan along with resource needs to operate and maintain complex arterial transportation system.
- Provide TMC technical staff assistance and training as needed.
- Provide technical assistance when conducting After Action Reviews or Program assessments
- Development of outreach materials (i.e. presentations, briefings, brochures, program information, and website information) as requested.
- Development of project special provisions or other necessary tasks to ensure regional operability.
- Development of communication and network design template for arterial roadway system.
- Assist with Communications and network troubleshooting, documentation working with Central Office and District staff. Coordination with the Central Office IT RTMC Liaison.
- Assist with Central Office Coordination
- Other activities related to Traffic Operations that will support the Department's program efforts to improve safety and mobility

### TIP Program Years (\$ 000)

Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
PE	A-073		2,000										
		0	2,000	0	0	0	0	0	0	0	0	0	0
		Total FY2017-2020		2,000		Total FY2021-2024				0			
										Total FY2025-2028			
										0			

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 110127 *District 6 Modeling Assistance*

New

LIMITS I-95 reconstruction and other areas as needed across the District

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:NRS

PLAN CENTER:

IPD:

PROJECT MANAGER: EE/E. Elbich

CMP:

PennDOT Class:

PennDOT Improvement:

NHPP:

This project provides for technical and planning assistance to PennDOT District 6 for support in implementation of the I-95 Reconstruction Projects, and other traffic studies as identified by PennDOT. DVRPC will be "on call" for quick-turnaround analysis or data collection tasks in support of specific and timely I-95 project planning needs. Tasks will include data collection, meeting and stakeholder coordination, traffic modeling and forecasting, and general research as needed.

This project will require an expansion of DVRPC staff to include a dedicated travel modeler to prepare traffic forecasts throughout the I-95 corridor in Pennsylvania. The additional staff member will report to the Manager, Office of Modeling and Analysis, and work with other OMA staff as needed to prepare traffic forecasts and other modeling services.

New traffic data and forecasts are needed for several tasks. These include analyzing additional interchange configurations to improve safety, reduce congestion, and address community concerns; support new or updated Point-of-Access (POA) studies; extend the horizon year of previous traffic forecasts in the corridor; analyze and plan for future freight activity; and prepare detour route forecasts for later construction phases.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	NHPP		260											
PRA	581		65											
		0	325	0	0	0	0	0	0	0	0	0	0	
		<b>Total FY2017-2020</b>			325	<b>Total FY2021-2024</b>				0	<b>Total FY2025-2028</b>			0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

MPMS# 110429 *Mobility Alternatives Program (MAP)*

New

LIMITS Region-wide

No Let Date

IMPROVEMENT Other

MUNICIPALITIES: Various

FC:

AQ Code:A1

PLAN CENTER:

IPD:

PROJECT MANAGER: Jackie Koons-Felion

CMP:

PennDOT Class:

PennDOT Improvement:

NHPP:

These congestion mitigation efforts cover business outreach efforts by contracted agencies for the Mobility Alternatives Program (MAP), the Share a Ride Program (SAR), and the Emergency Ride Home Program (ERH). Geared to employers, MAP is an outreach and education program overseen by DVRPC to provide information to employers and commuters about options to the single occupant auto for commuting to work. Most of the MAP contractors have the same work program, and the uniform marketing materials are created and produced by DVRPC. SAR is a computerized ride matching program available to all commuters with jobs in the DVRPC region. The system provides all available transit options to the applicant before any potential car or vanpool matches. SAR is a matching system only; once match information is provided to applicants, the individuals are responsible for making mutually-agreeable arrangements on their own. To complement SAR, the Emergency Ride Home Program makes rental-car or taxi transportation available in emergency situations. Note that funding for this task was formerly shared with the Transportation Management Associations (TMA) work programs under MPMS #17900. The DVRPC Work Program Task funding has now been broken out under this MPMS #110460 for distinction from the TMA work programs task and for more efficient administration purposes. The TMA portion is now covered under MPMS #110429.

		TIP Program Years (\$ 000)												
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028	
PRA	CAQ		433											
PRA	LOC		108											
		0	541	0	0	0	0	0	0	0	0	0	0	
		Total FY2017-2020			541	Total FY2021-2024				0	Total FY2025-2028			0

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 110460** *Commuter Services/Mobility Alternatives Program (Share-a-Ride)* **New**  
**LIMITS** Region-wide No Let Date  
**IMPROVEMENT** Other  
**MUNICIPALITIES:** Various **FC:** AQ Code:A1  
**PLAN CENTER:** IPD:  
**PROJECT MANAGER:** Jim Mosca **CMP:**  
**PennDOT Class:** **PennDOT Improvement:** **NHPP:**

These congestion mitigation efforts cover administration and marketing of the Mobility Alternatives Program (MAP), the Share a Ride Program (SAR), and the Emergency Ride Home Program (ERH). Geared to employers, MAP is an outreach and education program overseen by DVRPC to provide information to employers and commuters about options to the single occupant auto for commuting to work. Most of the MAP contractors have the same work program, and the uniform marketing materials are created and produced by DVRPC. SAR is a computerized ride matching program available to all commuters with jobs in the DVRPC region. The system provides all available transit options to the applicant before any potential car or vanpool matches. SAR is a matching system only; once match information is provided to applicants, the individuals are responsible for making mutually-agreeable arrangements on their own. To complement SAR, the Emergency Ride Home Program makes rental-car or taxi transportation available in emergency situations. Note that funding for this task was formerly shared with the Transportation Management Associations (TMA) work programs under MPMS #17900. The DVRPC Work Program Task funding has now been broken out under this MPMS #110460 for distinction from the TMA work programs task and for more efficient administration purposes. The TMA portion is now covered under MPMS #110429.

TIP Program Years (\$ 000)																
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028			
PRA	CAQ		201													
PRA	581		34													
PRA	LOC		16													
		0	251	0	0	0	0	0	0	0	0	0	0			
<b>Total FY2017-2020</b>		<b>251</b>			<b>Total FY2021-2024</b>				<b>0</b>				<b>Total FY2025-2028</b>		<b>0</b>	

**MPMS# 110837** *Route 422 Operations and Capacity Study* **New**  
**LIMITS** US 422 in Chester and Montgomery Counties No Let Date  
**IMPROVEMENT** Other  
**MUNICIPALITIES:** Various **FC:** AQ Code:X1  
**PLAN CENTER:** IPD:  
**PROJECT MANAGER:** James Mosca **CMP:**  
**PennDOT Class:** **PennDOT Improvement:** **NHPP:**

The efficient operation of the US 422 corridor is fundamental to the vitality of the greater Philadelphia region. Due to limited capital funding for capacity improvements, alternative strategies to maximize the current and future operating performance of this corridor continue to be identified. The primary focus of this study will be to develop a microsimulation tool and use it to analyze those strategies identified via participation of the project's stakeholders.

TIP Program Years (\$ 000)																
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028			
STUDY	TOLL															
STUDY	STU		150													
		0	150	0	0	0	0	0	0	0	0	0	0			
<b>Total FY2017-2020</b>		<b>150</b>			<b>Total FY2021-2024</b>				<b>0</b>				<b>Total FY2025-2028</b>		<b>0</b>	

# DVRPC FY 2017-2020 TIP for PA

## Pennsylvania - Highway Program (Status: TIP)

### Various

**MPMS# 111063**    **2018 District-Wide High Friction Surface Treatments and Pavement Markings** **New**  
**LIMITS** District-Wide No Let Date  
**IMPROVEMENT** Intersection/Interchange Improvements  
**MUNICIPALITIES:** Various **FC:** AQ Code:S2  
**PLAN CENTER:** IPD:  
**PROJECT MANAGER:** George Dunheimer ADE CONSTR    **CMP:**  
**PennDOT Class:** **PennDOT Improvement:** **NHPP:**

The project will address reducing crashes at wet road cluster locations. The improvements that will be implemented include High Friction Surface Treatment (HFST), refreshed/new pavement markings, and centerline/edgeline rumble strips. The proposed scope of work includes installing HFST, dotted extension pavement markings at intersections, advance curve warning markings, and centerline/edge line rumble strips where applicable. This project is scalable, so it will have the flexibility to add/delete locations depending on funding availability. Prioritized locations from District 6-0's wet road cluster lists will be closely coordinated with the District resurfacing program as it is developed each year to maximize HFST life cycle wherever possible.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	HSIP	2,000											
		0	2,000	0	0	0	0	0	0	0	0	0	0
<b>Total FY2017-2020</b>		<b>2,000</b>				<b>Total FY2021-2024</b>		<b>0</b>		<b>Total FY2025-2028</b>		<b>0</b>	

**MPMS# 111065**    **2019 District-Wide High Friction Surface Treatments and Pavement Markings** **New**  
**LIMITS** District-Wide No Let Date  
**IMPROVEMENT** Intersection/Interchange Improvements  
**MUNICIPALITIES:** Various **FC:** AQ Code:S2  
**PLAN CENTER:** IPD:  
**PROJECT MANAGER:** George Dunheimer ADE CONSTR    **CMP:**  
**PennDOT Class:** **PennDOT Improvement:** **NHPP:**

This project will address reducing crashes at wet road cluster locations. The improvements that will be implemented include High Friction Surface Treatment (HFST), refreshed/new pavement markings, and centerline/edgeline rumble strips. The proposed scope of work includes installing HFST, dotted extension pavement markings at intersections, advance curve warning markings, and centerline/edge line rumble strips where applicable. This project is scalable, so it will have the flexibility to add/delete locations depending on funding availability. Locations not addressed on the 2018 District Wide HFST (MPMS #11063) will be addressed in the 2019 District Wide HFST contract. Prioritized locations from PennDOT District 6-0's wet road cluster lists will be closely coordinated with the District resurfacing program as it is developed each year to maximize HFST life cycle wherever possible.

		TIP Program Years (\$ 000)											
Phase	Fund	FY2017	FY2018	FY2019	FY2020	FY2021	FY2022	FY2023	FY2024	FY2025	FY2026	FY2027	FY2028
CON	HSIP	2,000											
		0	2,000	0	0	0	0	0	0	0	0	0	0
<b>Total FY2017-2020</b>		<b>2,000</b>				<b>Total FY2021-2024</b>		<b>0</b>		<b>Total FY2025-2028</b>		<b>0</b>	

Total For	2017	2018	2019	2020	2017-2020	2021-2024	2025-2028
Various	\$54,993	\$83,029	\$63,286	\$87,125	\$288,433	\$361,555	\$434,247