



Highlights

of the **DVRPC FY2021 TIP** for **PENNSYLVANIA**
(FY21-FY24)





The Delaware Valley Regional Planning Commission is the federally designated Metropolitan Planning Organization for a diverse nine-county region in two states: Bucks, Chester, Delaware, Montgomery, and Philadelphia in Pennsylvania; and Burlington, Camden, Gloucester, and Mercer in New Jersey.



DVRPC's vision for the Greater Philadelphia Region is a prosperous, innovative, equitable, resilient, and sustainable region that increases mobility choices by investing in a safe and modern transportation system; that protects and preserves our natural resources while creating healthy communities; and that fosters greater opportunities for all.

DVRPC's mission is to achieve this vision by convening the widest array of partners to inform and facilitate data-driven decision-making. We are engaged across the region, and strive to be leaders and innovators, exploring new ideas and creating best practices.

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CHAPTER 1: General Overview

The Transportation Improvement Program (TIP) is the regionally agreed-upon program of multimodal federally funded priority transportation projects over a four-year period, as required by federal law. The Delaware Valley Regional Planning Commission (DVRPC) Fiscal Year (FY) 2021 TIP for Pennsylvania (FY21–FY24) covers the counties of Bucks, Chester, Delaware, Montgomery, and Philadelphia. The program reflects estimated costs and schedules for more than 380 highway and transit projects and represents over \$5.4 billion of transportation infrastructure investment in the five-county Pennsylvania DVRPC region. DVRPC prepares a major update to the Pennsylvania TIP every other year to coincide with the update of the Pennsylvania Department of Transportation's (PennDOT's) fiscally constrained statewide Twelve-Year Program, and releases a draft program for a review and comment period prior to recommending it for adoption by the DVRPC Board, which occurred on July 23, 2020. This year, the public comment period began on May 26, 2020, and closed at 5:00 PM on June 29, 2020. See further details regarding the comment process at the end of this document.

DVRPC works to proactively shape a comprehensive vision for the region's future growth. The agency does so by providing technical assistance and services, conducting high-priority studies that respond to the requests and demands of member states and local governments, fostering cooperation among various constituencies to forge a consensus on diverse regional issues, determining and meeting the needs of the private sector, and continuing public outreach efforts that promote two-way communication and enhance public awareness of regional issues and DVRPC.

What Is the TIP?

By way of congressional mandate, federal transportation legislation requires that DVRPC, as the Metropolitan Planning Organization (MPO) for the region, develop and update a TIP in order for the region to be eligible to receive and spend federal transportation funds.

The DVRPC TIP lists all transportation projects that intend to use federal funds, as well as state-funded capital projects that are transportation improvement priorities for this region. It is a multimodal, four-year program that shows estimated costs and schedules by project phase. Most importantly, the TIP is financially constrained to the amount of funds that are expected to be available. In order to add projects to the TIP, others must be deferred, or additional funding to the region must be identified. As a result, the TIP is not a "wish list"; competition between projects for a spot on the TIP clearly exists. The TIP not only lists specific projects but also documents the anticipated schedule and cost for each project phase (preliminary engineering, final design, right-of-way acquisition, utility, and construction). Although it is not a final schedule of project implementation, inclusion of a project phase in the TIP means that it is seriously expected to be implemented during the TIP time period.

The production of the TIP is the culmination of the transportation planning process and represents a consensus among state and regional officials as to what near-term improvements to pursue. Consensus is crucial because the federal and state governments want assurances that all interested parties have participated in developing the priorities before committing significant sums of money. A project's inclusion in the TIP signifies regional agreement on the priority of the project and establishes eligibility for federal funding.

The TIP is a requirement of federal transportation legislation, most recently, the Fixing America's Surface Transportation Act (FAST Act), or Public Law 114 - 94. The FAST Act was signed into law on December 4, 2015, and will expire on September 30, 2020. The FAST Act was the first federal law in over 10 years to provide long-term certainty for surface transportation funding after multiple extensions of the Moving Ahead for Progress in the 21st Century Act (MAP-21), which began on October 1, 2012, and originally was set to expire on September 30, 2014. The FAST Act built on the initiatives established in MAP-21; the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU); the Transportation Equity Act for the 21st Century (TEA-21); and the Intermodal Surface Transportation Efficiency Act of 1991 (ISTEA). Transportation investment has been prescribed in a balanced approach through a guaranteed commitment to highways and bridges, public transit, safety, intermodal projects, and advanced technologies, such as Intelligent Transportation Systems.

What Is the Timeline to Develop the TIP?

The TIP development (or update) typically begins approximately 10 months prior to adoption and involves intensive staff work and negotiations by PennDOT; the Southeastern Pennsylvania Transportation Authority (SEPTA); Pottstown Area Rapid Transit (PART); the Delaware River Port Authority (DRPA)/Port Authority Transit Corporation (PATCO); DVRPC staff; Federal Highway Administration (FHWA); and representatives of DVRPC city and county member governments, which constitute the DVRPC PA TIP Subcommittee. For the DVRPC FY2021 TIP, the process commenced during the late summer of 2019 with review of current conditions of the transportation network. Then, in the fall of 2019 the review of costs and schedules of the FY2019 TIP projects commenced. By March 2020, the result was a constrained, preliminary draft program ("preliminary Draft TIP") based on reasonable, anticipated revenue projections for the next 12 years (FY21–FY32) and based on feedback from the PA TIP Subcommittee. At the end of March 2020, the Subcommittee arrived at a final list of projects for the Draft TIP ("final Draft TIP") that could be evaluated for impacts on air quality conformity. On May 26, 2020, DVRPC opened a 30+-day public comment period, in which the draft document was shared with the public for feedback. The DVRPC Board is the final decision-making body of the MPO, and the DVRPC Board adopted the Draft TIP (with the List of Recommended Changes) in July 2020. After the DVRPC Board adoption, DVRPC staff submitted the document to PennDOT for approval and inclusion in the Statewide Transportation Improvement Program (STIP), which was then submitted to federal partners (e.g., FHWA, Federal Transit Administration [FTA]) for review and approval. The federal partners formally approved the PennDOT FY2021 STIP; the new DVRPC TIP and the PennDOT STIP will become effective on October 1, 2020, and will replace the DVRPC FY2019 TIP and PennDOT FY2019 STIP.

CHAPTER 2: Program Summaries

The DVRPC FY2021 TIP for Pennsylvania contains 385 projects (including the Interstate Management Program), totaling over \$5.4 billion for the phases to be advanced during the next four years, an average of \$1.3 billion per year. Programmed funds include \$1.9 billion for projects primarily addressing the non-Interstate Highway System and almost \$860 million for projects addressing the Interstate Management Program, resulting in an overall four-year total for the Highway Program of over \$2.8 billion. Additionally, there is a Transit Program for SEPTA and PART that totals \$2.6 billion. Table 1 presents a funding summary for the DVRPC region by county and transit operator for each of the four TIP years in Pennsylvania, which includes federal, state, local, and the Interstate Management Program funding for the DVRPC region. Tables 2 and 3 provide a breakdown of various state and federal funding sources and their distributions, including local matches, while Table 4 shows the grand total of the Highway and Transit programs.

Table 1: Cost Summary by County and Transit Operator in Pennsylvania (\$000)

	FY2021	FY2022	FY2023	FY2024	4-Year Total (FY21–FY24)
Highway Program					
Bucks County	60,900	68,833	49,383	40,250	219,366
Chester County	97,258	80,898	43,845	68,881	290,882
Delaware County	44,155	37,610	58,584	98,074	238,423
Montgomery County	100,092	107,622	67,659	28,532	303,905
Philadelphia County	172,848	212,904	105,244	106,519	597,515
Various Counties	87,035	92,242	78,661	65,197	323,135
Regional Highway Program	562,288	600,109	403,376	407,453	1,973,226
Interstate—Delaware County	11,750	10,300	1,850	12,300	36,200
Interstate—Montgomery County	27,000	6,400	21,400	26,400	81,200
Interstate—Philadelphia County	132,671	160,232	226,807	222,225	741,935
Interstate Program Subtotal Cost	171,421	176,932	250,057	260,925	859,335
Regional Highway and Interstate Program Subtotal Cost	733,709	777,041	653,433	668,378	2,832,561
Transit Program					
PART	2,781	2,182	2,241	2,307	9,511
SEPTA	693,236	610,608	645,559	640,439	2,589,842
Transit Program Subtotal Cost	696,017	612,790	647,800	642,746	2,599,353
Grand Total Cost of TIP	1,429,726	1,389,831	1,301,233	1,311,124	5,431,914

Source: DVRPC, 2020

Table 2: Cost by Highway TIP and Interstate Funding Category (\$000)

Fund Type	FY2021	FY2022	FY2023	FY2024	4-Year Total (FY21–FY24)	2nd 4 Years (LFY25–LFY28)	3rd 4 Years (LFY29–LFY32)	Total (LFY25–LFY32)
Highway Program								
Bridge State	62,256	62,154	44,238	44,028	212,676	176,626	176,094	352,720
Bridge State—Interstate	1,025	1,025	2,050	2,870	6,970	14,801	0	14,801
Highway State	44,062	47,545	47,259	53,170	192,036	212,674	212,662	425,336
Highway State—Interstate	7,087	6,942	17,951	20,174	52,154	39,130	500	39,630
Bridge Off	13,498	13,498	9,231	9,231	45,458	36,924	36,924	73,848
CAQ	36,881	36,881	36,881	36,881	147,524	147,524	147,524	295,048
e581	2,000	0	0	0	2,000	0	0	0
FLEX	17,083	17,083	17,083	17,083	68,332	68,332	68,332	136,664
HSIP	17,955	17,955	17,955	17,955	71,820	71,820	71,820	143,640
LOC	29,746	68,902	6,708	7,542	112,898	17,864	17,556	35,420
NFP	10,000	0	0	0	10,000	183,297	61,099	244,396
NHPP	121,001	106,947	77,675	65,745	371,368	153,745	102,544	256,289
NHPP—Interstate	121,059	160,065	208,106	200,481	689,711	1,001,496	673,524	1,675,020
Other	23,126	0	0	0	23,126	0	0	0
Private	0	45,000	0	0	45,000	0	0	0
RRX	20	0	80	1029	1129	0	0	0
sHSIP	12,871	13,252	262	0	26,385	0	0	0
SPK-NHPP	56,000	33,400	21,400	41,400	152,200	165,000	108,536	273,536
SPK-STP	4,500	17,000	20,000	20,000	61,500	20,000	0	20,000
sSTP	7,304	5,336	3,510	11,650	27,800	43,000	0	43,000
STP	30,405	30,282	26,568	26,397	113,652	105,588	105,588	211,176
STU	76,160	76,160	76,160	76,160	304,640	304,640	304,640	609,280
SXF	14,939	0	0	12,650	27,589	0	0	0
TAP	8,799	6,182	8,884	0	23,865	0	0	0
TAU	3,932	3,932	3,932	3,932	15,728	15,728	15,726	31,454
TIGER	12,000	0	0	0	12,000	0	0	0
Toll	0	0	0	0	0	0	0	0
TPK	0	7,500	7,500	0	15,000	0	0	0
Highway	733,709	777,041	653,433	668,378	2,832,561	2,778,189	2,103,069	4,881,258

Source: DVRPC, 2020

Note: LFY = Later Fiscal Years. The funds that are highlighted in green are state transportation funds; the funds highlighted in blue are FHWA funds; the funds highlighted in purple are local/Other funds. See Figure 2, "Cost Summary by Funding Source in Pennsylvania (\$000)," on page 6.

Table 3: Cost by Transit TIP Funding Category (\$000)

Fund Type	FY2021	FY2022	FY2023	FY2024	4-Year Total (FY21–FY24)	2nd 4 Years (LFY25–LFY28)	3rd 4 Years (LFY29–LFY32)	Total (LFY25–LFY32)
Transit Program								
1513	1,150	1,150	1,150	1,150	4,600	0	0	0
1514	325,223	338,717	370,952	370,950	1,405,842	1,496,753	1,530,720	3,027,473
1517	50	140	34	61	285	0	0	0
5307	105,704	105,027	105,191	105,226	421,148	416,980	416,980	833,960
5337	121,492	121,492	121,492	121,492	485,968	485,968	485,968	971,936
5339	9,206	9,206	9,206	9,206	36,824	36,824	36,824	73,648
CARES	24,850	0	0	0	24,850	0	0	0
LOC	20,839	25,335	28,047	22,931	97,152	91,249	91,181	182,430
Other	63,445	0	0	0	63,445	0	0	0
PTAF 44	24,058	11,723	11,728	11,730	59,239	33,967	0	33,967
Transit Subtotal	696,017	612,790	647,800	642,746	2,599,353	2,561,741	2,561,673	5,123,414

Source: DVRPC, 2020

Note: LFY = Later Fiscal Years. The funds that are highlighted in green are state transportation funds; the funds highlighted in blue are FTA funds; the funds highlighted in purple are local/other funds. See Figure 2; “Cost Summary by Funding Source in Pennsylvania (\$000),” on page 6.

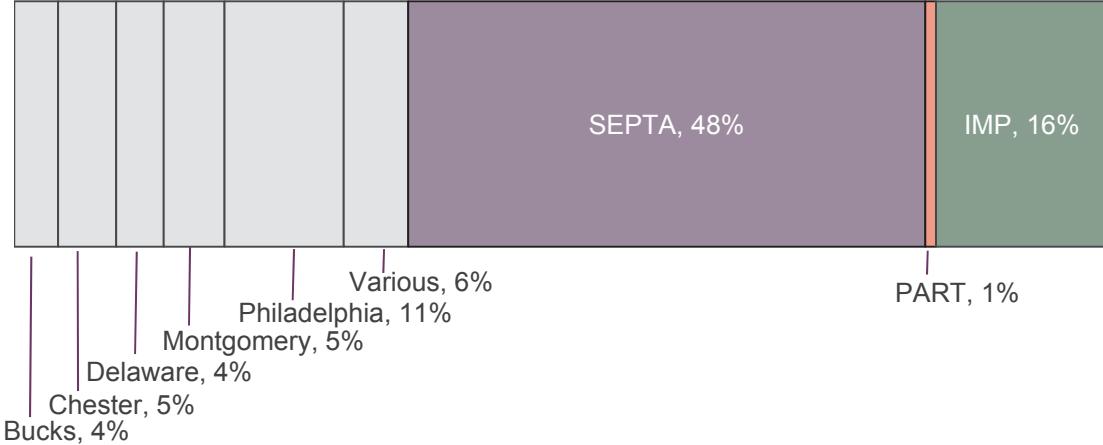
Table 4: Grand Total Highway and Transit Programs

Program	FY2021	FY2022	FY2023	FY2024	4-Year Total (FY21–FY24)	2nd 4 Years (LFY25–LFY28)	3rd 4 Years (LFY29–LFY32)	Total (LFY25–LFY32)
Grand Total Cost: Four-Year Highway and Transit Programs								
Highway	733,709	777,041	653,433	668,378	2,832,561	2,778,189	2,103,069	4,881,258
Transit	696,017	612,790	647,800	642,746	2,599,353	2,561,741	2,561,673	5,123,414
DVRPC Total	1,429,726	1,389,831	1,301,233	1,311,124	5,431,914	5,339,930	4,664,742	10,004,672

Source: DVRPC, 2020

Note: LFY = Later Fiscal Years.

Figure 1: Cost Summary by County and Transit Operator in Pennsylvania (\$000)



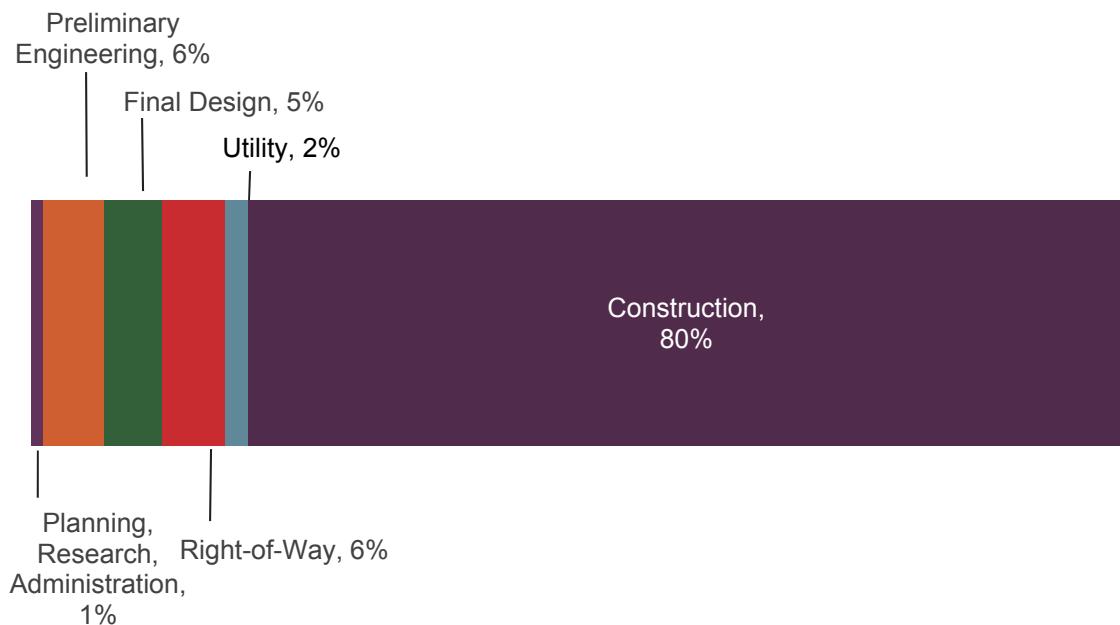
Source: DVRPC, 2020

Figure 2: Cost Summary by Funding Source in Pennsylvania (\$000)



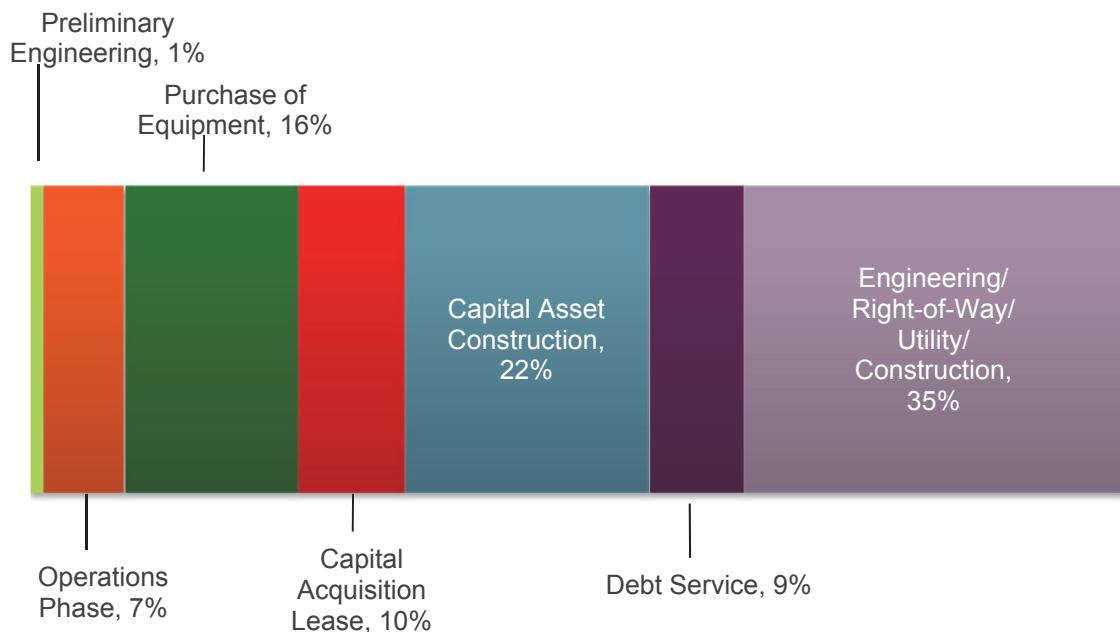
Source: DVRPC, 2020

Figure 3: Four-Year DVRPC Regional Highway Program Cost by Phase



Source: DVRPC, 2020

Figure 4: Four-Year DVRPC Regional Transit Program Cost by Phase



Source: DVRPC, 2020

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CHAPTER 3: Performance-Based Planning and Programming (PBPP)

Background

MAP-21 and the subsequent FAST Act require State departments of transportation, transit operators, and MPOs to establish and use a performance-based approach to transportation decision making. This includes tracking performance measures, setting data-driven targets for each measure, and selecting projects to help meet those targets. The FAST Act also requires that the TIP include a description of its anticipated effect toward achieving the established performance targets, linking investment priorities to those performance targets. This enhanced section in the main TIP document describes both highway and transit approaches to PBPP in the DVRPC region. The goal of PBPP is to ensure targeted investment of federal transportation funds by increasing accountability and transparency and providing for better investment decisions that focus on key outcomes.

The regulations required by FHWA are related to seven national goals:

1. safety;
2. infrastructure preservation;
3. congestion reduction;
4. system reliability;
5. freight movement and economic vitality;
6. environmental sustainability; and
7. reduced project delivery delays.

Regulations required by FHWA have established final rules on performance measures that address the seven goals, accordingly:

- fatalities and serious injuries, both number and rate per vehicle miles traveled, on all public roads;
- pavement condition on the Interstate system and on the remainder of the National Highway System (NHS);
- performance (system reliability) of the Interstate system and the remainder of the NHS bridge condition on the NHS;
- bridge condition on the NHS;
- traffic congestion;
- freight movement on the Interstate system; and
- on-road mobile source emissions.

The regulations required by FTA have established a strategic and systematic process of operating, maintaining, and improving public capital assets effectively through their life cycle. The performance management requirements are a minimum standard for transit operators and involve measuring and monitoring the following:

- transit safety;
- transit rolling stock;
- transit equipment;
- transit infrastructure; and
- transit facilities.

For more information about the development and implementation of Transportation Performance Management (TPM) policy and rule making, see www.fhwa.dot.gov/tpm for Highway and www.transit.dot.gov/performance-based-planning for Transit. For the TPM implementation timeline for all performance measures, see www.fhwa.dot.gov/tpm/rule/timeline.pdf for Highway and www.transit.dot.gov/regulations-and-guidance/transportation-planning/timeframes-performance-based-planning for Transit.

CHAPTER 4: Mapping Application and Listings Overview

Mapping Application and Geographic Information Systems (GIS)

The FY2021 TIP does not contain printed static project location maps. Due to the ever-changing nature of the TIP, the maps are out of date by the time the final version of the TIP is printed and distributed. For this reason, DVRPC suggests using the TIP Web Search Tool, www.dvRPC.org/TIP, as the primary mapping function to show the location of mappable projects for the highway, transit, and Interstate projects.

Different types of projects, such as intersection improvements, bridge replacements, or transit facilities, are shown using various colors and symbols in the TIP Web Search Tool. Certain types of projects, such as roadway landscaping, lease payments for the use of railroad tracks, or preliminary studies, are not mapped. These projects are listed on the right-hand side of the application, along with the mapped projects. Only the mapped projects will show up in the map pane on the left-hand side of the application.

For this TIP update, the TIP Web Search Tool has been enhanced. It is more user friendly, as well as able to be used on mobile devices. As with the previous TIP Web Search Tool, not just TIP projects are shown but also overlays of Planning Centers, Freight Centers, Congestion Management Process Corridors, and Indicators of Potential Disadvantage, as well as a “search by address or location” function. To go along with the enhanced TIP Web Search Tool, DVRPC has made TIP GIS data available as well. Downloadable GIS point, line, and polygon location features for TIP projects in the current adopted Pennsylvania and New Jersey TIPs, as well as formal TIP Actions that the DVRPC Board approve, are available via the Transportation section of DVRPC’s GIS Data web page, www.dvRPC.org/Mapping/Data. This web page also contains links to DVRPC’s GIS Portal, interactive maps, and a map gallery, in addition to other data resources. The GIS Portal contains boundaries, demographic, planning, and transportation data, which is helpful for obtaining data that provides context for the TIP.

DVRPC Regional Highway and Transit Project Listings

The TIP document includes various project listings. The project listings are drawn from the Pennsylvania Highway, Transit, and Interstate Management programs, which are thoroughly explained in the following paragraphs.

All projects within the four years of the TIP period (FY21–FY24) are considered funded and are able to be federally authorized for funding. By federal regulation, the TIP is the four-year constrained program for which revenues are reasonably expected to be available. However, the region has worked to develop a 12-year constrained programming horizon for highway and transit projects in order to provide more realistic expectations and timeframes in which to expect advancement of TIP projects with more realistic costs. Many projects that have phases within the four years also have phases (such as construction) that may be out in LFY25–LFY32. This 12-year constrained programming horizon is illustrated on the project listings within the TIP document. Project phases that fall beyond the four-year TIP are technically “unfunded,” but they are listed because they represent the region’s planned commitment to fund these phases in the future as funds become available.

Table 5: through Table 10: include highway projects for Bucks, Chester, Delaware, and Montgomery counties; the City of Philadelphia; and a listing of projects that apply to more than one county called “Various”. Table 11: includes transit projects for SEPTA and PART. Finally, Table 12: includes the Interstate Management Program. Within each county grouping, individual highway and transit projects are

listed numerically by PennDOT ID number (Multimodal Project Management System [MPMS]). For full project descriptions, please see the DVRPC FY2021 TIP for Pennsylvania at www.dvRPC.org/TIP

Projects **bolded** are “**NEW**” to the TIP. **Projects bolded with an asterisk (*)** are “**NEW-B**” projects that have been “broken out of,” or derived from, an existing TIP project. **Projects bolded and italicized** are projects indicated as “***RETURN***,” which were previously programmed in a prior TIP but through a variety of circumstances have returned to the FY2021 TIP.

Table 5: Bucks County TIP Project List

MPMS#	Project Title	MPMS#	Project Title
Highway Program—Bucks County			
12923	Bristol Road Extension	88083	Stoopville Road Improvements - Phase 2
12931	Worthington Mill Rd Br (Bridge)	90327	River Rd o/ Trib Delaware (Bridge)
12965	Lawn Avenue	93444	Route 1 Improvement-South (Section RC1)
13014	Clay Ridge Road Bridge Over Beaver Creek (CB #30)	93445	Route 1 Improvement-North (Section RC2)
13240	Old Bethlehem Road Bridge Over Kimples Creek	93446	Route 1 Improvement Frontage Corridor (Section RC3)
13440	Allentown Road and PA 663 Bridges (2) Over Licking Creek	98221	Stock's Grove Road over Beaver Creek (CB# 333)
13549	US 1 (Bridges) Design (Section 03S)	102272	Holland Road at Buck Road and Route 532
13635	Oxford Valley Road/Lincoln Highway Intersection Improvements	102598	Mill Creek Rd over Martin's Creek (CB #220)
13716	Headquarters Road Bridge Over Tinicum Creek	104365	New Falls Road Pedestrian Safety Improvements
13727	Bristol Road Intersection Improvements	107794	Woodbourne Road (SR 2033) and Langhorne-Yardley Road (SR 2049) Improvements
17918	I-95, Transit Improvements/FLEX (Cornwells Heights)	110091	King Road Bridge over Herkaken Creek (CB #54)
36475	Mill St. Grade Xing	110309	I-95/US 13/PA 132 Slip Ramp Operation Improvement
49315	Portzer Road Roundabout	110310	Almshouse at Jacksonville Road
50634	County Line Road Restoration (M04)(3R)	110966	Old Lincoln Highway and Hulmeville Avenue Safety Improvements
57619	Route 313 Corridor Improvements	111024	Easton Road Roundabout
64778	State Road	111464	Shady Retreat SRTS Trail
64781	Swamp Road/Pennswood Road Bridge Over Branch of Neshaminy Creek	111468	Lower Makefield Township Community Trail Connection
69823	Rosedale Rd o/ Br Unami Creek	111471	Aquetong Park Segment - Route 202 Cross-County Trail
74827	Delaware Canal Enhancement	115418	Route 113 & Minsi Trail Road Roundabout
78516	Bridge Replacement Brownsville Road	115419	Buckingham Road and York Road (PA 263) Roundabout
86244	River Road at Golden Pheasant over Delaware Canal	115420	Penndel Borough Intersection Improvements
86923	PA 309, Sellersville Bypass, Resurfacing (PM1)		

Table 6: Chester County TIP Project List

MPMS#	Project Title	MPMS#	Project Title
Highway Program—Chester County			
14134	West Bridge Street Bridge Over Amtrak	98224	Spring City Road over Stony Run (Bridge)
14236	Little Washington Road Bridge Over Culbertson Run	102708	PA 41 at PA 841 Improvements
14532	US 30, Coatesville Downingtown Bypass Reconstruction Design	102709*	PA 41 & SR 926 Improvements
14580	US 1 Expressway Reconstruction: PA 472 to PA 896	107551	SR30/SR10 to Business 30 Interchange Improvement
14581	US 1 Expressway Reconstruction: PA 896 to PA 41	107553	SR30 & Airport Rd Interchange Improvement
14698	US 422, Reconstruction (M2B)	107554	US30 & PA82 Interchange Improvement
47979	North Valley Road over Amtrak	107945	Art School Rd O/ Br Pickering Creek (Bridge)
64220	US 422 Expressway Reconstruction (M03)	110311	PA 41 at State Road Intersection
85949	SR 896 Safety Improvement	110312	Baltimore Pike/Newark Road Intersection Improvements
86064	Hadfield Road Bridge Over Beaver Creek (CB #244)	110949	Horseshoe Pike and Manor Road Intersection
86276	Township Road over West Branch of Big Elk Creek (CB #297)	110954	PA 10 Shoulder Widening
86301	Lancaster Avenue / Brandywine Creek	110963	Manor Road Roundabout
86302	Ewing Road over White Clay Creek Bridge	111474	My School on the Move Program
86696	Watermark Road Bridge Over Muddy Run (CB #21)	111477	State Road Sidewalks
87781	US 30, Coatesville Downingtown Bypass (CER-Eastern Section)	111485	Route 82 Crosswalks and sidewalk
90612	Boot Road o/ Amtrak (Bridge)	113307*	US 1 Expressway Reconstruction: PA/MD Line to PA 472
95430	US 202 at SR 926 Intersection Improvement	113312*	US 1 Expressway Reconstruction: PA 41 to Schoolhouse Road
98036	Merlin Road over Pigeon Run (Bridge)	115422	West Chester Pike Safety Improvements
98039	Ship Road over Valley Creek (Bridge)	115423	Route 23 Corridor Safety Improvements
98041	Birchrun Road over Birch Run (Bridge)	115424	US 322 West Chester Bypass Safety Improvements
98042	Conestoga Rd o/ Pickering	115425	High Street Pedestrian Improvements
98223	Creek Road over Pickering Creek (Bridge)		

Table 7: Delaware County TIP Project List

MPMS#	Project Title	MPMS#	Project Title
Highway Program—Delaware County			
15008	Folcroft Avenue Bridge Over Amtrak/SEPTA Wilmington/Newark Rail Line	98218	South Avenue over Muckinipattis Creek (Mulford Bridge) (CB# 142)
15183	Station Road Bridge Over Chester Creek (CB #234)	99668	PA 291 Drainage Improvement
15251	US 1 and PA 352 Interchange, Intersection, and Roadway Improvements	103217	Main Street Grade Crossing
15306	Sellers Avenue Bridge Over Amtrak and SEPTA Wilmington Newark Rail Line	104343*	US 322 over CSX
47147	3rd Street Dam Over Broomall Lake	104879	Cheyney Road Bridge Replacement
47992	New Road Over West Branch of Chester Creek (Crozierville Bridge)	107642	Smithbridge Road Corridor
57773	Lloyd Street Bridge Over Amtrak/SEPTA Wilmington Newark Rail Line (CB)	108910	I-95 Noise Abatement
64791	PA 420, Kedron Avenue	110951	Macdade Blvd. Corridor Safety Improvements
69665	South Creek Road Bridge Over Brandywine Creek	110965	Marshall Road Corridor Safety Improvements
69817	US 322, Featherbed Lane to I-95 (Section 102)	111021	Bethal Road Roudabout
70228	I-476, MacDade Boulevard Ramp Improvements	111022	Chichester Avenue Corridor Safety Improvements
79329	Bridgewater Road Extension	111167	Lansdowne Avenue Corridor Safety Improvements
86370	Tribbitt Avenue Bridge Over Hermesprota Creek (CB #237)	111486	Octoraro Trail Construction - Phase 1
88400	US 1, Chester County Line to Pole Cat Road	111487	Walkable Chadds Ford
92323	Wanamaker Ave o/ Darby Ck (Bridge)	111488	Media Borough Ridge Road Stormwater Improvements
92739	Glenn Riddle o/Chrome Run (Bridge)	111762	PA 3: Ellis to St Albans
92808	Marshall Rd o/ Cobbs Crk (Bridge)	113251	Highland Avenue Railroad Preemption
93105	State Rd o/Darby Creek (Bridge)	114034*	US 322: Chelsea Parkway to Market St. Interchange (Section 103)
95429	US 202 and US 1 Loop Road	115426	Haverford Road Corridor Safety Improvements
98216	Michigan Ave over Little Crum Creek (CB# 210)	115427	Lansdowne Avenue Corridor Safety Improvements
98217	Hilldale Road over Darby Creek (CB# 149)		

Table 8: Montgomery County TIP Project List

MPMS#	Project Title	MPMS#	Project Title
Highway Program—Montgomery County			
16150	Tookany Creek Parkway Bridge Over Tookany Creek	64798	North Narberth Avenue Bridge Over Amtrak/SEPTA (CB)
16214	PA 611, Old York Road Over SEPTA R3	66952	PA 23/Valley Forge Road and North Gulph Road Relocation (2NG)
16239	New Hanover Square Road Bridge (Bridge)	72355	Valley Green Road Bridge Over Wissahickon Creek
16334	PA 73, Church Road Intersection and Signal Improvements	74813	Ambler Pedestrian Sidewalk Improvements
16408	Fruitville Road Bridge Over Perkiomen Creek (CB #232)	74816	Whitemarsh Street Imprv (TE)
16438	PA 309, Connector Project - Phase I	74937	Whitemarsh Township Street Improvements
16577	Ridge Pike, Butler Pike to Crescent Avenue Reconstruction and Signal Upgrade	77211	PA 309 Connector: Allentown Road to Souderton Pike (HT2)
16665	US 202, Markley Street Southbound (Section 500)	80021	US 202, Markley Street Improvements (Section 510)
16705	Chester Valley Trail Extension (C036)	80052	Fetters Mill Bridge Over Pennypack Creek
16726	WarminsterRd/Pennypack Ck (Bridge)	83742	Keim Street Bridge Over Schuylkill River
16738	US 422 Expressway Section M1B	86336	Congo Road Bridge Replacement
48172	PA 23 Moore to Allendale and Trout Crk Rd Bridge	92807	PA 73 - Skippack Pike Bridge Replacement
48174	PA 63, Welsh Rd.	92839	Ridge Pike over Norfolk Southern RR bridge (CB: #257)
48175	Ridge Pike, PA Turnpike to Butler Pike	98037	Niantic Road over Perkiomen Creek (Bridge)
48187	Henderson/Gulph Road Widen near I-76 Ramps	98225	Butler Pike over Prophecy Creek (Bridge)
57849	PA 29, Main Street Bridge Over Reading Railroad Tracks (Removal)	102273*	Ridge/Germantown Intersection Re-Alignment - Phase 1, Perkiomen Crossing
63486	US 202, Johnson Highway to Township Line Road (61S)	103372	Waverly Road over Tacony Creek (County Bridge #275)
63491	US 202, Morris Road to Swedesford Road (65S)	105803	PA 309 Connector: Souderton Pike to PA 309 (HT3)
63493	PA 309, 5-Points Intersection Improvements (71A) (Old US 202, 5-Points Intersection Improvements (71A))	106068	Barbadoes Street Connector Road
64795	Belmont Rd/Rock Hill Rd Widening: I-76 Ramps to Rock Hill Road	106326	Union Street Grade X-ing

Table 8: Montgomery County TIP Project List (continued)

MPMS#	Project Title	MPMS#	Project Title
Highway Program—Montgomery County			
107180	Powerline Trail Connection - Phase 1 (TAP)	111491	Corinthian Trail
107996	Abington Township Trail (TAP)	111492	Limekiln Pike Multimodal Safety Initiatives
108006	Limerick Township Trails (TAP)	111493	Lower Salford Sidewalk for SR 113 and Park Ave
108008	Tookany Creek Trail Phase 3 (TAP)	111494	Kriebel Road Trail
110313	Belmont Avenue Bridge over Schuylkill River (CB #200)	111495	Main Street Pedestrian Improvements
110315	Philmont Avenue/Tomlinson Road/Pine Road Improvements - 6 Point Intersection	112232	I-76 Slope Repair Westbound
110444*	Ridge Pike - School Lane to Belvoir Road (CB #0 and TPK Bridge DB-116)/Interchange Area	112233	I-76 Rock Slope Stabilization Eastbound
110762	Perkiomenville Road over Sciota Creek Bridge Replacement	114270	Wynnewood Road Road Diet
110961	Old Skippack Rd. Roundabout	114944	Bethlehem Pike Safety Improvements
110971	Main Street Safety Improvements	114948	Lancaster Avenue and Remington Road Intersection Improvements
111005	Conshohocken Garage (I-76 ICM)	115428	Sumneytown Pike Intersections Safety Improvements
111129	Cannon Ave. Grade Xing	115429	Belmont Avenue and St. Asaphs Road Roundabout
111490	Whitpain Twp. Trail Network - Core Connector III		

Table 9: Philadelphia County TIP Project List

MPMS#	Project Title	MPMS#	Project Title
Highway Program—Philadelphia County			
12824	2019 Philadelphia ADA Ramps	69909	Willits Road Bridge Over Wooden Bridge Run
12886	ADA Ramps 2020 Philadelphia	70231	Swanson Street Reconstruction
17409	Coulter St/SEPTA *B2 (Bridge)	72597	Benjamin Franklin Bride Safety Improvements
17511	City Ave o/ SEPTA (Bridge)	74828	American Cities/Safe Routes to School -
17697	Island Avenue Signal Upgrade	75804	University Av/CSX Rail (Bridge)
17816	Chestnut Street Bridges, Ramps, (8) at 30th Street	78757	JFK Blvd @ 32nd St. o/ SEPTA (30th Street Station) (Bridge)
57276	Montgomery Avenue Bridge over Amtrak at 30th Street (CB)	79686	I-95, Columbia Avenue to Ann Street (GR1)
57902	City Wide 3R Betterments Line Item	79830	North Delaware Riverfront Greenway Project, Sec 1 (TAP)
69828	Market Street Bridges (2) Over Schuylkill River and CSX Railroad (MSB)	79832	North Delaware Riverfront Greenway project, Sec 3

Table 9: Philadelphia County TIP Project List (continued)

MPMS#	Project Title	MPMS#	Project Title
Highway Program—Philadelphia County			
80104	Henry Ave Corridor Safety Improvements, Phase 1	108098	Citywide ADA Ramps 2
81292	Frankford Av/Frankford Ck (Bridge)	108099	Falls Road Bridge
83736	Roosevelt Blvd over Wayne Junction (WAV)	108129	MLK Drive over Schuylkill River (Bridge)
87784	Aramingo/Harbison: Church Street to Amtrak (Section BS3)	110314	30th Street Viaduct over 30th Street Lower (Bridge)
88085	Byberry Road Bridge Replacement	110415	Schuylkill Banks Christian to Crescent (TIGER)
91490	Expressway Service Patrol - Philadelphia	110781	Renewing Philadelphia's Historic Streets
92147	Broad St over Loading Dock (Bridge)	110782	Historic Shawmont Station
92554	Ridge Ave Over Amtrak (Bridge)	110958	Castor Avenue Roundabout
92809	Roosevelt Blvd Exit (Bridge)	111062	University Avenue and I-76 Off Ramp Intersection Safety Improvements
96223	Philadelphia Signal Retiming	111194	Castor Avenue Corridor Safety Improvements
98229	59th Street over AMTRAK	111496	Franklin Square Pedestrian Access Project
98230	Tabor Road over Tacony Creek	111500	Manayunk Canal Lower Locks Preservation Project
102134	Henry Ave Corridor Safety Improvements, Phase 2	111501	Broad & Locust Modified Urban Intersection
103563	I-95: Delaware Avenue Extension (BS5)	111503	North Broad Street - Vision Zero Priority Corridor
105290	Ben Franklin Bridge Eastbound Operational Improvements	111505	Mid-block Crossing in University City - Drexel University
105488	Citywide Resurfacing 105	111506	Blvd Pedestrian Safety & Direct Bus Improvements
106264	I-95 Central Access Philadelphia (CAP) / Waterfront Access	111507	Cramp Elementary School Traffic Safety Improvements
106708	I-95 Planning Assistance	111508	South Broad Street Sidepath, Phase 1
106993	Frankford Ave Signal Improvements	111509	City Avenue Project - City Avenue Special Services District
107183	Make Way for Children, Expanding Pedestrian Infrastructure to Philadelphia Schools (TAP)	111510	Frankford & Belgrade Improvements
107198	Safe Spaces for Cyclists: Building a Protected Bicycle Network (TAP)	111511	Riverfront Gateway Sidewalk Project
107631	Navy Yard Contra Flow Loop Shuttle	111515	Cherokee Street Bridge over Valley Green Road
108092	Citywide Resurfacing 107	112500*	Citywide Resurfacing 110
108095	Citywide Resurfacing 108	112527*	Citywide ADA Ramps 3
108097	Citywide Resurfacing 109	114942	SR 0001 Roosevelt Blvd IHSDM Study

Table 9: Philadelphia County TIP Project List (continued)

MPMS#	Project Title	MPMS#	Project Title
Highway Program—Philadelphia County			
115430	Broad Street Corridor Safety Improvements	115440	Washington Lane Corridor Safety Improvements
115431	Verree Road Corridor Safety Improvements	115442	Vine Street Corridor Safety Improvements
115433	Welsh Road Corridor Safety Improvements	115444	Wyoming Avenue Corridor Safety Improvements
115434	Frankford Avenue Corridor Safety Improvements	115445	5th Street Corridor Safety Improvements
115435	63rd Street Corridor Safety Improvements		

Table 10: Various Counties TIP Project List

MPMS#	Project Title	MPMS#	Project Title
Highway Program—Various Counties			
12842	ADA Ramps 2020 Bucks and Montgomery Counties	97311	Transportation Community Development Initiative (TCDI) Administration
12885	ADA Ramps 2020 Chester and Montgomery Counties	102105	Municipal Bridge Line Item
16178	Construction Management Tasks	102106	Poor Condition Bridge Line Item
17876	Road/Resurfacing/Rehabilitation	102107	Bridge On Demand Line Item
17928	Air Quality Action Supplemental Services	102275	Study Line Item
48201	DVRPC Competitive CMAQ Program	102320	District Wide Bridge Rehab Group P
48202	Regional GIS Support - DVRPC	102665	Signal Upgrade Line Item
51095	ITS Program Integrator	104639	Travel Monitoring
57927	Regional Safety Initiatives (HSIP)	105291	The Circuit Line Item
63406	Retrofit for Bike Lanes and Shoulders	106648	Sink Holes Line Item
64652	Transportation Community Development Initiative (TCDI)	106649	Stormwater Permits/Environmental Mitigation
64984	Transportation Alternatives Program (TAP) Line Item	106651	Sign Structure Repair
65109	Transit Flex - SEPTA	106654	I-95 Transportation Demand Mgt (TMA)
66460	TAP Project Engineering and Management - DVRPC	109847	ROW Divestment 6-0
66461	CMAQ Project Engineering and Management - DVRPC	109848	LED Lighting Conversion 6-0
72738	Transportation Systems Management and Operations (TSMO)	110127	District 6 Modeling Assistance
75854	District Program Management Services "A"	110429	Mobility Alternatives Programs (MAP)/Share a Ride Program (SAR)
75855	District Program Management Services "B"	110460	Commuter Services
79927	Highway Reserve Line Item-STP	110494	Regional Traffic Management Center (RTMC) General Contract
79929	Bridge Reserve Line Item	110660	Bridge Group V
79980	STU Reserve Line Item	111424	Transportation Management Associations
82216	NHPP Reserve Line Item	113257	Outdoor Advertising Control
83743	ADA Ramps Line Item	114939	Regional TDM Program
84318	CAQ Reserve Line Item	114949	Replacement of Antiquated Permanent DMS
84457	Signal Retiming Program	114960	I-476 Ramp Meter Upgrade
86077	Enhance and Maintain Travel Forecasting Tools - Expressway Service Patrol - Suburban Counties (2022-2026)	114967	Transportation Operations
92182		115416	2020 Districtwide High Friction Surface Treatment
95447	County Bridge Line Item	115417	2021 Districtwide High Friction Surface Treatment

Table 11: Transit TIP Program List

MPM#	Project Title	MPMS#	Project Title
SEPTA		PART	
15407	Villanova Intermodal Station	59935	Capital Operating Assistance - Pottstown Area Rapid Transit (PART)
59966	Capital Asset Lease Program	95739	Transportation Capital Improvements
59973	Utility Fleet Renewal Program - Non Revenue Vehicles		
60275	Debt Service		
60317	Federal Preventive Maintenance		
60335	City Hall / 15th Street Stations		
60540	Parking Improvements		
60574	Paoli Transportation Center		
60582	Vehicle Overhaul Program		
60599	Paratransit Vehicle Purchase		
60611	SEPTA Key (Fare Collection System/New Payment Technologies)		
60636	Elwyn to Wawa Rail Restoration		
60638	Regional Rail Car & Locomotive Acquisition		
60651	Substations and Power Improvements		
73214	Ardmore Transportation Center		
77183	Transit and Regional Rail Station Program		
90497	Infrastructure Safety and Renewal Program		
90512	SEPTA Bus Purchase Program		
93588	Exton Station		
95402	Bridge Program		
102565	Track Improvement Program		
102567	Roof Program		
102569	Maintenance & Transportation Facilities		
102571	Communications, Signals, & Technology		
107011	Safety and Security Improvements		
115472	Projects of Significance		

Table 12: Interstate Management Program List

MPMS#	Project Title	MPMS#	Project Title
Interstate Management Program—Delaware County			
15477	I-95/322/Conchester Hwy. Interchange/Impvts. (322)		
92581	I-95: Pavement Preservation NB		
104821	I-476 Travel Management		
112298	SR 476: I-76 Interchange to MacDade		
Interstate Management Program – Montgomery County			
106662	I-76 Integrated Corridor Management		
Interstate Management Program – Philadelphia County			
17821	I-95: Shackamaxon Street to Ann Street (GIR) - Design	98207	I-95 Congestion Management
46959	I-95 Design Review Manager	103553	I-95: Race-Shackamaxon 2 (GR6)
47811	Bridge Street Design (Section BSR)(IMP)	103555	I-95 Corridor ITS (GR8)
47812	I-95: Betsy Ross Interchange (BRI) - Design(IMP)	103556*	I-95 ATMS (GR9)
47813	I-95: Ann Street to Wheatsheaf Lane (AFC)	103557	I-95N Ann St-Wheatsheaf Lane (AF3)
79827	I-95 Southbound: Columbia-Ann St N (GR4)	103558	I-95SB: Ann St -Wheatsheaf Lane (AF4)
79828	I-95 Northbound: Race - Shackamaxon (GR5)	103559	I-95: Betsy Ross Mainline Southbound (BR4)
79904	I-95: Betsy Ross Section Overhead Bridges, Ramps, Adams Ave (BR2)	103560	I-95: Betsy Ross Section Conrail Bridges (BR5)
79905	I-95: Betsy Ross Mainline (BR3)	103561	I-95: Betsy Ross Interchange Drainage (BR6)
79908	I-95: Kennedy to Levick (Section BS1) (IMP)	103562	I-95: Betsy Ross Ramps/Adams Avenue Connector (Section BS4)
79910	I-95: Margaret to Kennedy (Section BS2) (IMP)	107698	I-76 Bridge Repair Section SRE
79912	I-95: Allegheny Ave and Castor Ave Interchanges connection (AF2)	107709	I-95 Bridge Repairs (95/MB4)
80014	I-95: Utility Relocation & Surface Streets (CP3)	112299	I-76: Route 1 - I-676
92289	I-95 Consultant Management	114876	Studies Line Item

CHAPTER 5: Learn More and Share Your Ideas!

DVRPC encourages the public to provide comments about the TIP and specific projects to state, county, transit, and DVRPC staff through its ongoing public involvement process.

The public comment period for the Draft DVRPC FY2021 TIP for Pennsylvania opened on May 26, 2020, and closed on June 29, 2020, at 5:00 PM (local time)

Comments were submitted online via the TIP comment/search/map application at www.dvRPC.org/TIP/Draft/ and are available in Appendix I of the TIP Addendum at www.dvRPC.org/TIP/PA/pdf/AddendumPubInvolve21.pdf

DVRPC firmly believes in public participation and reaches out to as many populations as possible in an equitable and timely manner. Public participation is a way to ascertain the interests of a wide variety of residents, including the under-involved, the private sector, special-interest groups, older adults, educators and parents, public officials, the mentally and physically disabled, and the economically disadvantaged. Although today's residents may be more sophisticated, and modern standards are more inclusive, the need for public involvement is inherent to sound decision making.

Every resident is responsible for becoming involved in regional issues and informing the decision-making process; therefore, DVRPC strives to provide as many opportunities as possible for residents to be informed and aware of the decisions that will affect the future of this region.

Two virtual open houses were held at the following web addresses for the purpose of informing interested parties on how to make public comments on the Draft DVRPC FY2021 TIP:

Wednesday, June 17, 2020

2:00 PM to 3:00 PM

Registration: https://dvRPC.zoom.us/webinar/register/WN_I8Hr6lsaTk-nFbKxD1ILw

Call-in information: 646-558-8656; webinar ID: 928 8347 2086; Password: 0b1&E1fB

Or

Wednesday, June 17, 2020

7:00 PM to 8:00 PM

Registration: https://dvRPC.zoom.us/webinar/register/WN_oFLiQk-eRnyyOEpHu4wd0Q

Call-in information: 646-558-8656; Webinar ID: 969 5255 6273; Password: 0b1&E1fB

Although participants needed to register beforehand, they were approved automatically and could register and join the meetings up until the meetings ended. Additionally, people who wanted to participate but did not have internet access or smart phones could call in. Anyone who needed accommodations, such as closed captioning or interpretation, could have contacted DVRPC's Office of Communications and Engagement at public_affairs@dvRPC.org or 215-238-2929.

Furthermore, DVRPC frequently utilizes social media ([Facebook](#), [Twitter](#), and [Instagram](#)) during the public comment period to raise the public's awareness and interest.

The draft TIP document was released during a worldwide public health crisis. The DVRPC region was under various stay-at-home orders issued by the Pennsylvania governor, the New Jersey governor, and the mayor of Philadelphia. DVRPC's offices in Philadelphia were closed and, when reopened, have limited access due to social distancing guidelines.

At the time of the release of the Draft TIP, public libraries remained closed. DVRPC's Office of Communications and Engagement contacted a number of large public libraries to see if they had recommendations for how DVRPC could bridge the "digital divide." Few had suggestions, as they were also struggling with bridging the divide to meet constituents' needs during a public health emergency. In addition, all public libraries that received DVRPC's public comment materials were asked to help promote the public comment period through their online platforms. Additionally, tribal government contacts received a direct email and letter describing DVRPC's Core Planning Documents, which the TIP is a part of, in an effort of coordination, as appropriate, with each of the Tribal Nations.

Questions and comments had to be submitted in writing. If the public needed assistance in providing a written comment, they were directed to contact the DVRPC Office of Communications and Engagement at 215-592-1800 or public_affairs@dvrpc.org.

**Comments for this document had to be received no later than 5:00 PM (local time) on June 29, 2020.
Comments received via mail must have been postmarked by June 29, 2020. Responses were not provided unless comments were submitted in writing during the public comment period.**

PUBLICATION TITLE	Highlights of the DVRPC FY2021 Transportation Improvement Program (TIP) for Pennsylvania (FY21–FY24)
PUBLICATION NUMBER	21001C
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GEOGRAPHIC AREA COVERED	Southeastern Pennsylvania (Bucks, Chester, Delaware, Montgomery, and Philadelphia counties)
KEY WORDS	Air Quality, Bike and Pedestrian, Bridges, Conformity, Congestion Mitigation and Air Quality, Congestion Mitigation Process, DRPA/PATCO, FAST Act, Federally Funded Projects, Fixing America's Surface Transportation Act, Highway Safety Improvement Program, Highways, HSIP, MAP-21, Moving Ahead for Progress in the 21st Century, National Freight Program, National Highway Freight Program, National Highway Performance Program, NFP, NHFP, NHPP, PART, PBPP, PennDOT, PennDOT's Bureau of Public Transit, Pennsylvania Department of Transportation, Performance-Based Planning and Programming, Pottstown Area Rapid Transit, Public Involvement, Railway-Highway Grade Crossing, Safety, Safety Performance Measures, Safe Routes to School, SAFETEA-LU, SEPTA, STP, STBGP, Surface Transportation Block Grant Program, Surface Transportation Program, TA, TEA-21, TIP, Transit, Transportation, Transportation Alternatives, Transportation Equity Act for the 21st Century, Transportation Improvement Program
ABSTRACT	The Highlights for the Draft DVRPC FY2021 Transportation Improvement Program (TIP) for Pennsylvania briefly describes the region's TIP as a federally required, multi-modal, four year constrained program of planned transportation infrastructure investment. It also contains a summary listing of all transit, highway, bridge, bicycle, pedestrian, and freight related projects in DVRPC's Pennsylvania region which will seek federal funding in fiscal years (FY) 2021 to 2024. The Highlights document includes a financial summary of funding by county and by operator, as well as a section on how, when, and where to comment on the Draft DVRPC FY2021 TIP for Pennsylvania.
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