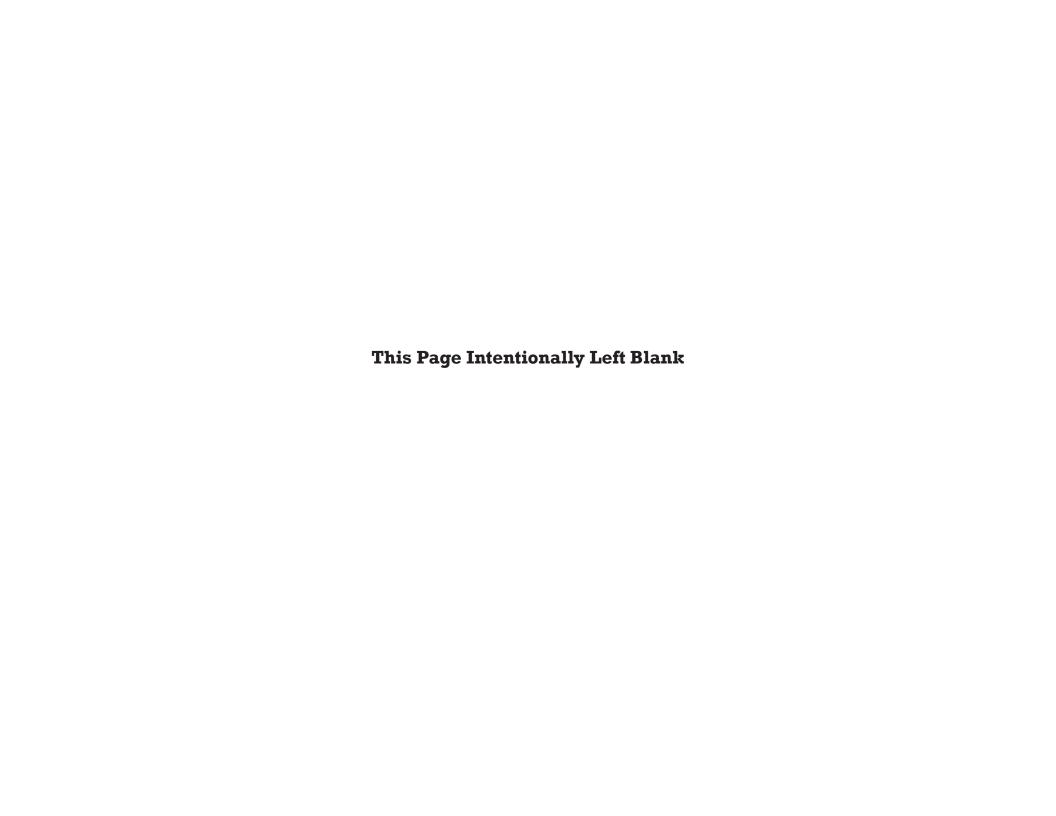


Fiscal Year 2016 Capital Budget Fiscal Years 2016-2027 Capital Program



FISCAL YEAR 2016 CAPITAL BUDGET AND FISCAL YEARS 2016-2027 CAPITAL PROGRAM

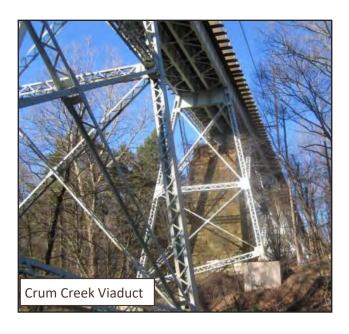
"REBUILDING SEPTA FOR THE FUTURE"



Approved by the SEPTA Board
May 28, 2015

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Overview and Summary

This document presents SEPTA's annual capital budget for Fiscal Year 2016 and the capital program for Fiscal Years 2016 through 2027. Developed annually, the budget describes the capital improvements SEPTA plans to undertake with an ipated funding. The budget is adopted by SEPTA's Board, and is re ted in the regional Transporta Improvement Program (TIP). SEPTA's capital budget document is organized as follows:

- Introdu on to SEPTA
- Strategic plannin orts
- Sources of funds
- Uses of funds, with program highlights
- Financial assump s
- The FY 2016 Capital Budget and FY 2016-2027 Capital Program Funding Table
- Descrip of capital programs and individual projects
- Appendices (Alignment with Strategic Plan and Long-Term Planning E orts)

SEPTA's FY 2016 Capital Budget totals **\$534.54 million** and the 12-year Capital Program totals **\$6.8 billion**. In comparison, the amended FY 2015 Capital Budget totaled \$687.47 million and the 12-year Capital Program totaled \$6.9 billion, which was approved by the SEPTA Board on October 23, 2014. This amount included the add on of a compe ve federal Hurricane Sandy program award of \$115.7 million to advance SEPTA's Resilience program.

In FY 2016, SEPTA will con e to pursue its "Rebuilding SEPTA for the Future" program (originally begun in FY 2015 as the "Catching Up" program). This program includes improvements to cal infrastructure, such as substa s, bridges and sta s. The program also replaces rail vehicles that have far exceeded their useful life, while expanding capacity to address ridership growth and improving accessibility. These improvements will protect regional transit service for current and future customers, improve reliability and modernize outdated equipment.

The FY 2016 Capital Budget con es to fund the groundbreaking SEPTA Key (formerly known as New Payment Technologies), the Authority's et of hybrid buses, insta of federally mandated Pos ve Train Control (PTC) signal technology, vehicle overhauls, capital leases and debt service.

An in e microsite containing inform n by project and infrastructure program is available at h p://www.SEPTA.org/rebuilding (see microsite page representa at right).

FY 2016 Capital Budget Open House





"Rebuilding the SEPTA System" Link



Introduction to SEPTA

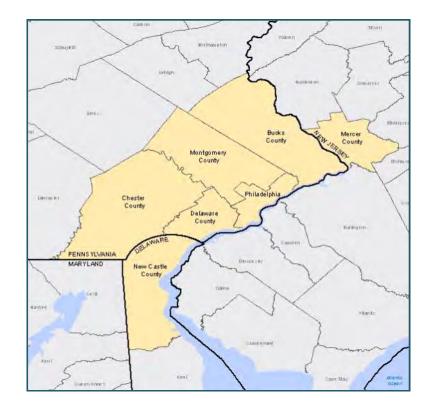
SEPTA is the n n's sixth-largest public transit agency and the primary public transit provider in the greater Philadelphia region. SEPTA was created by the Pennsylvania state legislature in 1964 and is an instrumentality of the Commonwealth of Pennsylvania. SEPTA's mu modal network serves a 2,200 square-mile region with a popu exceeding four million. The SEPTA service area includes the ve coun s of southeastern Pennsylvania – Bucks, Chester, Delaware, Montgomery, and the City of Philadelphia – and also extends to Trenton and West Trenton in New Jersey, and Wilmington and Newark in Delaware.

SEPTA operates the following services:

- 118 bus routes
- 13 Regional Rail lines
- 8 Trolley lines
- Broad Street Line and the Market-Frankford Line (subway/elevated)
- Norristown High Speed Line (an interurban heavy rail line)
- 3 Trackless Trolley routes
- Customized Community Transporta (CCT), demand response services for seniors and individuals with disabili es
- Four small bus circulator and shu le services

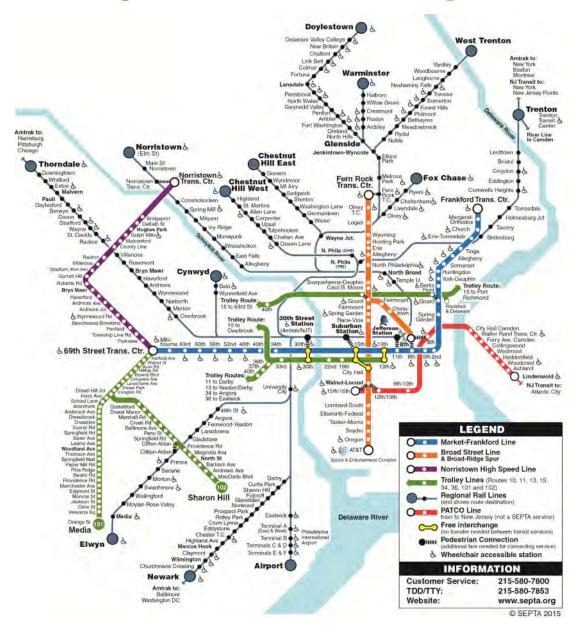
Service / Mode	Ridership	Revenue Vehicles
Bus	157,968,145	1,390
Regional Rail	36,657,700	404
Trolley	31,879,509	159
Subway/Elevated	93,318,600	343
Norristown High Speed Line	3,147,209	26
Trackless Trolley	5,405,800	38
Demand Response	1,778,800	445
Total	330,155,763	2,770

Source: FY 2014 SEPTA Opera Sta s



In FY 2014, the Authority provided more than **330 million** passenger trips, with average weekday ridership of approximately **1.10 million** trips. Despite heavy snowfalls during the winter of 2013-2014, SEPTA's FY 2014 ridership remained near quarter-century highs, including an all-record **36.7 million** passenger trips on Regional Rail.

SEPTA Regional Rail and Rail Transit Map



Recent Achievements

SEPTA's Board Chair Pasquale T. Deon, Sr. received the 2014 **Outstanding Public Transportation Board Member Award** from the American Public Transporta Associa (APTA).

Women's Transporta Seminar (WTS) - Philadelphia Chapter presented SEPTA with the **2014 Philadelphia Award** for extraordinary e orts to promote the Transporta Industry in the Philadelphia area, and the **Innovative Transportation Solution Award** for SEPTA's "SEP-TAINABLE" Recycling Program.

SEPTA's Energy Op miza Project won the Energy Storage North America (ESNA) 2014 Innovation Award. SEPTA partnered with Philadelphia-based smart grid Viridity Energy to implement a storage system that u izes "regener e energy" created by braking trains.

SEPTA's 33rd & Dauphin Bus Loop rehabilita won the **Philadelphia Preservation Alliance 2014 Grand Jury Award**.

SEPTA, in partnership with the Archdiocese of Philadelphia and the City, will host the **World Meeting** of Families and Pope Francis in the Fall 2015.

This year marks the **30th anniversary** of SEPTA's Airport Regional Rail Line.

Naming Rights Partnership with Je erson University Hospitals renames Market East Regional Rail Sta n "Jefferson Station."

Strategic Business Plan

As part of its Five-Year Strategic Business Plan, SEPTA establishes vision, mission, core values, strategies, and key performance indicators to measure progress toward business objec ves. The strategic planning process is a management tool that un s and guides SEPTA's other major planning processes, including the Opera and Capital Budgets and the Annual Service Plan. The Strategic Business Plan for FY 2015-2019 uses eight corporate objec ves to align these plans:

- ☑ Safety & Security
- ☑ The Customer Experience
- ✓ Sustainability
- ☑ Ridership Growth
- ☑ Emerging Technologies
- ☑ Rebuilding the System
- ☑ Human Capital Development
- ☑ Business Partnerships

SEPTA employs a balanced scorecard approach to measure quan le progress. "Key Performance Indicators" reports are updated monthly and are available at: h p://www.septa.org/strategic-plan.

Economic Impact · SEPTA is a catalyst for economic ity in Southeastern Pennsylvania and the State as a whole. SEPTA's capital and opera—al expenditures contribute \$3.21 billion in economic output, supponearly 26,000 jobs in Pennsylvania, and genera—\$62.5 million in state tax revenues, according to a 2013 report published by the Economy League of Greater Philadelphia and Econsult Solu—s, Inc.

Sustainability Program Plan

A key programm element of SEPTA's Strategic Business Plan is "SEP-TAINABLE," which outlines the Authority's triple bo om line approach to sustainability: accoun for environmental, social and economic organiza al needs and regional opportun es. The program sets 12 sustainability goals with spe measurable performance targets for each goal. SEPTA releases annual reports tracking progress toward these goals. The program plan and annual reports are available at h p://www.septa.org/sustain. Examples of goals, performance indicators and results are shown in the table below.

SEF	P-TAINABLE S	ustainability Pla	an Goals (Selection)
Focus Area	Example Goal	Performance Indicator	Latest Results
Environmental	Reduce waste and increase recycling rates	Recycling rate (% Diverted from land II)	Recycled 14% of municipal waste in FY 2014; progress towards a 20% goal system wide.
Social	Improve access to local food via transit	Farmers markets on SEPTA property	In 2014, ve markets were hosted on SEPTA property, exceeding performance target of three markets.
Economic	Increase transit mode share	Commute-to- work mode share for public transport on	Increased to 12.68% regionally in 2013, the highest level in over a decade.

Transit Asset Management

SEPTA is implemen a new Transit Asset Management (TAM) Program, to be fully fun onal in 2016. The TAM Program will guide SEPTA's capital investments, and will allow the Authority to produce State of Good Repair performance indicators in accordance with new federal requirements. A new suite of so ware will help SEPTA maintain comprehensive asset inventories and maintenance inform n for rolling stock and assets such as bridges, sta s, and rail. In es currently underway include:

Vehicle Maintenance Information System (VMIS) · Upgrade to so ware used to manage and maintain SEPTA's revenue vehicles, including buses, Customized Community Transporta on (CCT) vehicles, rail cars, and lity vehicles.

Asset Maintenance Management System • Impleme on of an infrastructure maintenance management system to maintain inventory; track inspec on dates; and schedule pre ve maintenance, for SEPTA's infrastructure and associated assets.

State of Good Repair Database • Development of a capital planning and decision-making tool that will evaluate the Authority's ability to achieve a state of good repair based on available funding.

One of SEPTA's strategic business goals is "Rebuilding the System." With the infusion of new State funding, the Authority con es to p the replacement and renewal of infrastructure and vehicles, such as substa s, bridges, sta s, maintenance facili s, and rail cars, in order to bring the system to a state of good repair. State of good repair projects require aining a balance between opera al impacts and other strategic business in ves.





STRATEGIC PLANNING EFFORTS

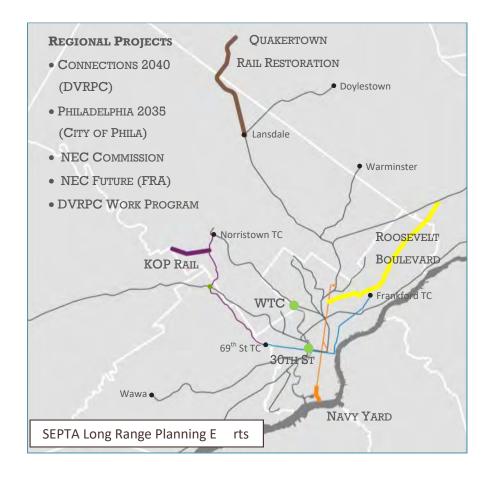
Long Range Planning

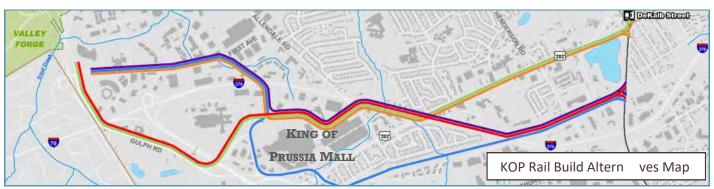
SEPTA plays a key role in a wide variety of transporta planning e orts within the region, ranging from involvement in the Delaware Valley Regional Planning Commission's (DVRPC) Connec s 2040 Long Range Transporta Plan, to review and implementa of Philadelphia 2035 and County Plans, to local sta area planning projects with Municipali s within the SEPTA service area. These planning e orts help to iden y poten future transporta needs as well as inform the SEPTA capital planning process of recommended future investments.

Although SEPTA will remain focused for the foreseeable future on reducing the backlog of state of good repair projects, the Authority is able to advance planning e orts for a small number of poten—future system expansion projects. SEPTA is currently involved in planning work for several of these poten—future expansions: an extension of the Norristown High Speed Line to King of Prussia (the King of Prussia Rail Project), an extension of the Broad Street Subway to the Philadelphia Navy Yard, and the Quakertown Rail Restora—Analysis on the Bethlehem Branch from Lansdale to Perkasie.

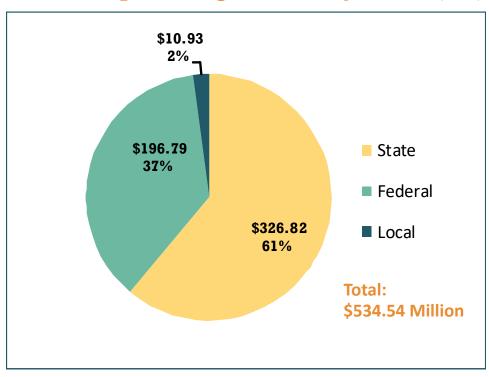
SEPTA also par ipates in complex and large scale planning e orts led by area stakeholders, including implementa and review of the Philadelphia 2035 plan, AMTRAK Northeast Corridor Planning, and par ip n in the DVRPC work program and associated studies.

Many of these long term planning e orts are iden d on the adjacent map. For add onal project details on these projects as well as SEPTA's framework for a Long Range Plan, please refer to Appendix B.





FY 2016 Capital Budget: Funds by Source (\$M)



State Funding for Transit: A Recent History • Act 44, enacted in 2007, established the Public Transport on Trust Fund, which restructured public transit funding in Pennsylvania. The previous General Fund sources were replaced with dedicated funding, including a po of Sales Tax, Lo ery proceeds, Pennsylvania Turnpike Commission funding, funds from Act 3 of 1997, and funds from the Public Transport on Assistance Fund (PTAF, refees, vehicle lease fees and vehicle rental fees). However, in 2010, the Pennsylvania Turnpike Commission was unable to obtain federal approval to begin tolling Interstate 80. As a result, Act 44 funds were signicantly impacted, reducing SEPTA's annual capital program by approximately \$110 million annually — or 25 percent of the annual budget. Between FY 2011 and FY 2014, SEPTA's capital program shrunk to about \$300 million annually, the lowest level since 1997. This sustained drop in funding severely hampered the Authority's ability to advance new projects or address the State of Good Repair backlog. The passage of Act 89 of 2013 enables SEPTA to begin addressing these shortcomings.

State Funds: \$326.8 Million

On November 25, 2013, Governor Corbe signed into law Act 89, a comprehensive transporta n funding bill for the Commonwealth of Pennsylvania. This historic legis provides long-term, dedicated funding for public transit as well as roads, bridges and mu modal . Following on the recommend ns of the Governor's transporta Transporta Funding Advisory Commission, new revenues are generated through uncapping the Oil Company Franchise Tax (OCFT), various fees for in , and surcharges on tra kets. For SEPTA, Act 89 will provide a predictable, growing source of funds to make al infrastructure repairs and improvements.

Projected growth in Act 89 funding is an ipated to nearly double SEPTA's annual capital program by Fiscal Year 2018, as compared to FY 2014. This level of capital funds will permit SEPTA to address its State of Good Repair backlog, currently es ated at \$5 billion due to long-term funding sho lls. In FY 2015, SEPTA embarked on its "Rebuilding for the Future" capital program to repair or replace assets that have long exceeded their useful life.

SEPTA's FY 2016 Capital Budget includes **\$326.82 million** in state funds. SEPTA will receive state capital funds primarily via Se on 1514, the Asset Improvement Program. Sources of funding for Sec 1514 will be generated by various sources: proceeds of capital bonds; , vehicle lease and vehicle rental fees; traffic viola es; motor license fund fees; and turnpike transfer funds, which will eventually be replaced with sales and use tax revenues. SEPTA will receive 69.4 percent of the statewide capital funds allocated to transit autho es.

The Sec 1514 program supports up to 96.775 percent of the total cost of capital projects. The remaining 3.225 percent is matched by Bucks, Chester, Delaware and Montgomery Coun es and the City of Philadelphia. SEPTA also uses state transit funds to match federal grants, with the state share being 19.355 percent of the total project cost when used in this manner. The remaining 0.645 percent is matched by the four regional coun s and City of Philadelphia.

Federal Funds: \$196.8 Million

SEPTA's FY 2016 Capital Budget includes an es ated \$196.8 million in federal funds. Federal funds typically support 80 percent of the total cost of a capital project; the remaining 20 percent local match is provided by the Commonwealth of Pennsylvania, the City of Philadelphia, and Bucks, Chester, Delaware and Montgomery Coun s. SEPTA receives most of its federal funding from the Federal Transit Administra (FTA). "Moving Ahead for Progress in the 21st Century" (MAP-21) authorizes federal surface transporta n programs. Congress is working on reauthoriza of MAP-21, which has been extended through July 31, 2015. Federal funding sources and Fiscal Year 2016 es mates are shown in the adjacent table.

Most federal funding is provided via the FTA's formula programs. SEPTA also receives federal highway funds that PennDOT " s" (i.e., transfers) to transit agencies; SEPTA typically uses ex funds for bus replacements. SEPTA's FY 2016 capital budget includes \$5.1 million in Conges funds that PennDOT is providing for transit capacity enhancements related to the reconstru on of Interstate 95. The budget also includes \$2.5 million in projected Transit Security Grant Program (TSGP) funds allocated through compe ve grants administered by the Federal Emergency Management Agency (FEMA).

The Authority applies for compe ve federal grants when available. In 2013, SEPTA was awarded discre ary funding through the TIGER V grant program (U.S. Department of Transporta on) for the \$38.8 million SEPTA-CSX West Trenton Separ n project. In September 2014, SEPTA received \$86.8 million in funding from the FTA's "Resilience Projects In Response to Hurricane Sandy" compe ve grant program, which made funding available to transit agencies impacted by Hurricane Sandy to protect transit infrastructure against future natural disasters. This funding represents a 75 percent share of SEPTA's Resilience Program cost of \$115.7 million. The program consists of seven projects designed to harden priority areas of SEPTA's infrastructure.

FY 2016 Budget: Federal Funding Estimates								
Program	Description	Amount (Millions)						
FTA Sec on 5307	Urbanized Area Formula Program. Funds transit capital projects. Alloc ons based on popul on, density, ope g expenses, revenue miles and route miles.	\$61.0						
FTA Sec on 5340	Growing States and High Density States Formula Program. Alloc ons based on popul on forecasts and popul on density. SEPTA receives funding through the Growing States program.	\$3.0						
FTA Sec on 5337	State of Good Repair Program. Funds High Intensity Fixed Guideway (rail) and High Intensity Motorbus capital projects. Alloc ons based on vehicle revenue miles and route miles.	\$100.5						
FTA Sec on 5339	Bus and Bus Facili es Formula Program. Funds capital projects to replace, rehabilitate or purchase buses and related facili es. Alloc ons based on popul on and service factors r providing a minimum amount per state.	\$7.6						
Highway Flex	Federal highway program funds that PennDOT provides to transit agencies for capital improvement projects. Based on the Governor's commitment, \$25 million per year is exed annually to transit operators.	\$17.1						
Conges on Mig on	Federal Interstate Management funds that PennDOT is providing for conges on on ac s, including transit capacity enhancements, related to the reconstruc on of Interstate 95.	\$5.1						
Transit Security Grant Program	Compe ve grant program administered by Federal Emergency Management Agency (FEMA). Provides funds for an -terrorism, safety and security improvements, and ope nal ac s such as directed patrols.	\$2.5						
Total Federal		\$196.8						

Local Funds: \$10.9 Million

SEPTA's FY 2016 Capital Budget includes **\$10.9** million in local matching funds. The required local match for federal and state funds is provided by Bucks, Chester, Delaware and Montgomery Coun s and the City of Philadelphia. SEPTA requests matching funds from the coun s along with its annual opera budget request; capital funds required for the City of Philadelphia's local share are requested as part of the City's capital budget process.

Public-Private Partnerships / Joint Development

Public—Private Partnerships (P3s or PPPs) are contractual agreements between a public agency and a private en that allow for greater private par ip n in the delivery of transporta projects. In P3s, the private sector assumes more risk in exchange for the opportunity to earn a ancial return, while the public sponsor bene s from access to private capital. P3s require a revenue stream that can be used to repay the project ancing. Where allowable, P3s can improve project feasibility, shorten project schedules and improve the quality of the nished project.

Most transit projects employ the Design-Bid-Build model, wherein the design and construc phases of a project are procured by a transit agency using mu ple, separate contracts, and there is or no overlap between these phases. P3s may be structured as follows:

- Design-Build;
- Design-Build-Operate-Maintain;
- Design-Build-Finance-Operate-Maintain; or
- Finance-Design-Build-Own-Operate-Maintain

Federal and state agencies are working to pave the way for P3s in the transporta industry. The Federal Transit Administra (FTA) conducted a Public-Private Partnership Pilot Program (Penta-P) and recently released Joint Development guidelines. In 2012, Pennsylvania lawmakers passed legis on approving the use of public-private partnerships for transporta n projects.



SEPTA successfully used a public-private partnership approach to implement a Wayside Energy Storage project at Substa on the Market-Frankford Line. The equipment reduces SEPTA's energy use and also generates revenue by allowing SEPTA to par ipate in the frequency regu market. SEPTA's energy storage equipment is used to help compensate for short-term grid instability caused by events such as extreme weather. SEPTA receives compens n for helping to maintain the power grid at a stable frequency.

SEPTA will be adve sing a Request for Proposals for a joint development project in the Fall 2015 for advancing parking expansion improvements at the 69th Street Transporta on Center in Delaware County. In add on, SEPTA is currently evalu g Proposals to Finance, Design, Build, Own, Operate and Maintain (FDBOOM) a combined heat and power (CHP) plant at the Midvale Facility to source Regional Rail power with Pennsylvania natural gas.

FY 2016 Capital Budget - Summary

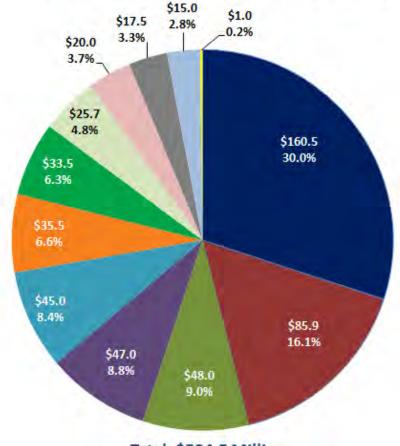
SEPTA's FY 2016 Capital Budget totals **\$534.5 million.** Available 2016 funds are allocated among projects that will advance strategic objec ves, bring assets to a state of good repair under the "Rebuilding for the Future" agenda, meet the Authority's ancial oblig ns, and implement system improvements to enhance transit service. Capital investments are focused on the following areas:

- **Bridge Program (\$48.0 M)**: Including regional rail viaducts and stone arch bridges, and transit bridges on the Norristown High Speed Line and trolley lines.
- Communications, Signal Systems and Technology Improvements (\$33.5 M): Including Pos ve Train Control (PTC).
- Financial Obligations (\$85.9 M): Includes Capital Asset Lease Program and Debt service payments.
- Infrastructure Safety Renewal Program (\$35.5 M): Includes track replacement, sta renewal, signals and commun s equipment rehabilita, tra on and power systems renewal, and rehabilita n of maintenance f es.
- Maintenance/Transportation Shops & Offices (\$25.7 M): Includes maintenance equipment/life-safety improvements at SEPTA bus and rail maintenance shops, facili s maintenance shops and o buildings.
- New Payment Technologies SEPTA Key (\$45.0 M): To modernize SEPTA's an ated fare payment system by o ering riders a variety of payment choices to suit their travel needs.
- Safety & Security (\$20.0 M): This program includes life safety assessments, facility and vehicle security measures and interoperable commun s improvement projects. This program also includes projects compe vely funded through the U. S. Department of Homeland Security (DHS) to provide pro on from terrorism, major disasters and other emergencies.
- Service Restoration (\$1.0 M): Elwyn to Wawa Rail Service Restora
- Stations, Loops and Parking Improvements (\$47.0 M): Provides for the reconstru on or rehabilita of SEPTA sta s and parking expansions and improvements with a focus on accessibility.
- Substations and Power Improvements (\$17.5 M): To modernize SEPTA's railroad and transit substa ns, originally built in the 1920's and 1930's, and replace catenary and feeder cables.

- Track and Right-of-Way Improvements (\$15.0 M): To return rail infrastructure to a state of good repair. SEPTA operates rail service over 359 one-way miles of track, including track owned by SEPTA, Amtrak, the City of Philadelphia and CSX.
- Vehicle Replacements and Overhauls (\$160.5 M): Replacing vehicles that have exceeded their useful life, and op izing the performance of the exis et through targeted overhaul campaigns.

Projects are described in more detail in the Program Descrip s star on page 12.

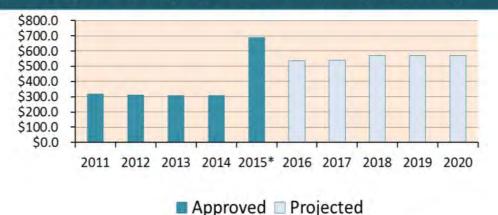
SEPTA's FY 2016 Capital Budget (\$M)



Total: \$534.5 Million

FUNDING PROJECTIONS AND ASSUMPTIONS

Capital Budget, FY 2011 - 2020 (Millions)



* Amendment to the Capital Budget to include federal Resilience funds was approved by the SEPTA Board on October 23, 2014.

State funding is expected to grow steadily over the next four years. Act 89 is projected to nearly double SEPTA's annual capital budget by FY 2018. State capital funds for SEPTA are expected to increase from \$120 million in 2014 to more than \$350 million annually.

Act 89 also provides new bondable revenue sources for transit. In the future, SEPTA an ipates issuing bonds for certain capital projects, such as rail car acquisi s, to assist in ancing the capital program.

SEPTA assumes the level of federal funding will remain constant over the dura of the FY 2016 Capital Budget and FY 2016-2027 Capital Program. MAP-21 has authorized funding through July 31, 2015 and provided a modest increase over its three year dura . The future of federal funding may be impacted by the solvency of the Highway Trust Fund, which supports both highway and transit programs. SEPTA is working diligently with industry partners and its Congressional delega to encourage the passage of a long-term federal funding reauthoriza for transporta .

SEPTA's FY 2016 Capital Budget and FY 2016-2027 Capital Program totals \$6.8 billion and is cally constrained, so that the program of projects re ects an ipated funding levels. In order to advance add onal projects, add onal funding must be secured through compe ve grants or local sources, or through the use of capital ancing to distribute project costs over a longer period of e.





FY 2016 CAPITAL BUDGET AND FY 2016-2027 CAPITAL PROGRAM

Capital Program and Project Descriptions



FY 2016 CAPITAL BUDGET AND FY 2016-2027 CAPITAL PROGRAM

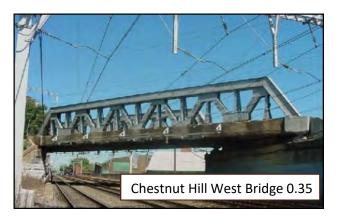
Capital Programs /	Prior	Budget Year		Progran	n Years		FY 2021-	12-Year Program	Beyond	Total
Financial Obligations	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
					\$Millic	ons				
Capital Programs										
Bridge Program	\$43.33	\$48.00	\$17.61	\$13.00	\$20.00	\$10.00	\$123.57	\$232.18	\$65.16	\$340.67
Communications, Signal Systems and Technology Improvements	\$40.56	\$33.54	\$17.12	\$16.15	\$24.66	\$19.78	\$119.35	\$230.60	\$14.39	\$285.55
Infrastructure Safety Renewal Program	\$0.00	\$35.50	\$35.50	\$35.50	\$35.50	\$35.50	\$248.50	\$426.00	\$0.00	\$426.00
Maintenance/Transportation Shops and Offices	\$34.60	\$25.66	\$10.00	\$9.00	\$15.00	\$10.00	\$95.00	\$164.66	\$104.13	\$303.39
New Payment Technologies - SEPTA Key	\$25.36	\$45.00	\$82.00	\$74.64	\$0.00	\$0.00	\$0.00	\$201.64	\$0.00	\$227.00
Safety and Security Improvements	\$0.00	\$20.00	\$12.00	\$10.00	\$10.00	\$10.00	\$100.00	\$162.00	\$0.00	\$162.00
Service Restorations	\$11.65	\$1.00	\$2.00	\$12.50	\$30.00	\$31.99	\$17.86	\$95.35	\$0.00	\$107.00
Stations, Loops and Parking Improvements	\$177.58	\$47.00	\$48.00	\$48.00	\$60.00	\$45.00	\$539.23	\$787.23	\$168.09	\$1,132.90
Substations and Power Improvements	\$36.50	\$17.50	\$15.00	\$13.50	\$20.00	\$15.00	\$134.95	\$215.95	\$129.63	\$382.08
Track and Right-of-Way Improvements	\$11.40	\$15.00	\$10.00	\$4.00	\$5.00	\$5.00	\$51.00	\$90.00	\$51.95	\$153.35
Vehicle Acquisitions and Overhauls	\$276.20	\$160.47	\$199.00	\$237.58	\$248.58	\$294.69	\$1,957.87	\$3,098.19	\$909.32	\$4,283.71
Subtotal Capital Programs	\$657.18	\$448.67	\$448.23	\$473.87	\$468.74	\$476.96	\$3,387.33	\$5,703.80	\$1,442.67	\$7,803.65
Financial Obligations										
Capital Leases	\$0.00	\$34.72	\$39.88	\$45.06	\$50.24	\$52.33	\$396.10	\$618.33	\$0.00	\$618.33
Debt Service	\$0.00	\$51.15	\$51.09	\$51.00	\$50.95	\$43.30	\$224.65	\$472.14	\$17.10	\$489.24
Total Capital Budget	\$657.18	\$534.54	\$539.20	\$569.93	\$569.93	\$572.59	\$4,008.08	\$6,794.27	\$1,459.77	\$8,911.22

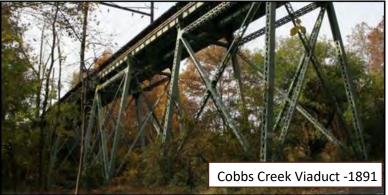
BRIDGE PROGRAM

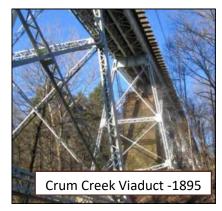
The SEPTA system includes over 350 bridges. Average age is in excess of 85 years, with 155 bridges over 100 years old. This program will restore SEPTA's bridges to a state of good repair. Bridges will be repaired or replaced based on their cond on, and new bridges will be constructed where required. Rehabilita / replacement of bridges on rail lines and SEPTA right-of-ways will include culverts, pedestrian bridges and associated bridge support structures.

	SEPTA Bridges	
	City Transit	20
	Suburban Transit	45
	Regional Rail	<u>287</u>
	Total	352
(

		Budget						12-Year		
	Prior	Year		Program	Years		FY 2021 -	Program	Beyond	Total
Bridge Program	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
					\$Mill	ions				
Bridge Program	\$43.33	\$48.00	\$17.61	\$13.00	\$20.00	\$10.00	\$123.57	\$232.18	\$65.16	\$340.67
TOTAL	\$43.33	\$48.00	\$17.61	\$13.00	\$20.00	\$10.00	\$123.57	\$232.18	\$65.16	\$340.67







BRIDGE PROGRAM

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area	
Railroad Bridge Projects (FY 2016 - 2020)					
Chestnut Hill West Line Bridge 0.35 Rehabilitation					
Rehabilita of Bridge 0.35 over the Chestnut Hill West Regional Rail Line. The bridge crosses over SEPTA's Four Track Regional Rail Main Line. The bridge was constructed in 1916.	\$10.29 M	Design Complete Constru on 2014 - 2016	Philadelphia	Philadelphia	
Crum Creek Viaduct					
The viaduct on the Media/Elwyn Regional Rail Line spans 925 feet and at its greatest height, is over 100 feet above grade. The viaduct, constructed circa 1895, will be replaced.	\$89.86 M	Design/Build 2015 - 2017	Delaware	Delaware Philadelphia	
Media/Elwyn Line Viaduct Improvements					
Replacement of bridge mbers, pain superstructure, substructure steel repairs and found n reinforcement on three viaducts on the Media/Elwyn Regional Rail Line, including:	\$43.25 M	Design Complete	Delaware	Delaware	
 Cobbs Creek Viaduct (Mile Post 4.79), 377 foot span. Built 1891. Darby Creek Viaduct (Mile Post 7.11), 339 foot span. Built 1900. Ridley Creek Viaduct (Mile Post 14.41), 641 foot span. Built 1896. 	۱۷۱ کے۔دہر	Constru on 2014 - 2016	Philadelphia	Philadelphia	
Stone Arch Bridge Program					
Rehabilita of the following nine (9) Stone Arch Bridges on SEPTA's Regional Railroad: Lansdale/Doylestown Line 22.93 (15 foot span). Built 1903. Lansdale/Doylestown Line 13.10 (8 foot span). Built 1902. Manayunk/Norristown Line 16.88 (22 foot span). Built 1934. Manayunk/Norristown Line 4.61 (10 foot span). Built 1934. Manayunk/Norristown Line 9.41 (20 foot span). Built 1834. Manayunk/Norristown Line 9.93 (10 foot span). Built 1834. Media/Elwyn Line 12.12 (15 foot span). Built 1854. West Trenton Line 20.21 (12 foot span). Built 1876.	\$8.34 M	Design Complete Constru on 2015	Bucks Delaware Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia	

BRIDGE PROGRAM

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Railroad Bridge Projects (FY 2021-2027)				
Chestnut Hill East Line Bridge Rehab Program				
Rehabilita of e bridges on the Chestnut Hill East Regional Rail Line located at milepost 5.04, 5.72, 7.63, 8.90 & 9.59.	\$30.00 M	2021 - 2027 Project	Philadelphia	Philadelphia
Chestnut Hill West Bridge Rehab Program				
Rehabilita of seven bridges on the Chestnut Hill West Regional Rail Line located at milepost 0.06, 0.83, 1.17, 1.26, 2.98, 4.42 & 5.67.	\$35.00 M	2021 - 2027 Project	Philadelphia	Philadelphia
Mainline-Schuylkill Bridges (30th St. to Suburban Station)				
Rehabilita of nine bridges between 30th Street Sta and Suburban Sta located at milepost 0.49, 0.58, 0.61, 0.64, 0.68, 0.72, 1.25, 5.68 & 11.62. These bridges were built in 1929.	\$56.00 M	2021 - 2027 Project	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Transit Bridge Projects (FY 2016 - 2020)				
MSHL Bridge 6.48 over Whiskey Run				
Replacement of superstructure and repairs to substructure on Bridge 6.48 on the Media Trolley Line. This bridge was built circa 1912.	\$1.59 M	Design Complete Constru on 2015	Delaware	Delaware
NHSL Bridge 0.15 over 69th St. Yard El Tracks				
Replacement or rehabilita n of exis four (4) span steel structure of Bridge 0.15 on the Norristown High Speed Line. This bridge was built in 1906.	\$15.50 M	Design 2016 - 2017 Constru on 2018 - 2020	Delaware	Delaware Montgomery
NHSL Viaduct over Schuylkill River				
Rehabilita of the Viaduct (Mile Post 12.81) on the Norristown High Speed Line, including steel, concrete and bearing repairs and pain. The viaduct, constructed in 1911, is 3,165 feet long and runs from Bridgeport Stato the Norristown Transporta on Center. The bers on the viaduct were replaced in 2013.	\$30.50 M	Design 2018 Constru on 2019 - 2020	Montgomery	Delaware Montgomery

This program provides for improvements to SEPTA's commun s systems, signal systems, and inform n technology infrastructure. Projects will upgrade hardware and so are, replace equipment that has reached or exceeded its useful life, and bring systems to a state of good repair. As part of its Capital Program, SEPTA will rehabilitate various grade crossings and interlockings, upgrade the Computer Aided Radio Dispatch (CARD) system, install real- e passenger inform n systems at railroad and transit sta s, and upgrade real- e service inform n for bus and

trolley passengers. Rail signal moderniza projects will improve opera al bility and enhance service quality. This program includes installa of Pos ve Train Control (PTC) technology on all Regional Rail lines, which is required by the federal Rail Safety Improvement Act of 2008. The annual Inform n Technology program provides replacement and upgrades of the Authority's computer hardware, so are and network equipment.

Communications, Signal Systems and	Prior	Budget Year Program Years							.2-Year rogram Beyond	
Technology Improvements - Program Elements	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
					\$Millio					
Communications & Signal Improvements	\$40.56	\$28.54	\$12.12	\$11.15	\$19.66	\$14.78	\$84.35	\$170.60	\$14.39	\$225.55
Technology Improvements	\$0.00	\$5.00	\$5.00	\$5.00	\$5.00	\$5.00	\$35.00	\$60.00	\$0.00	\$60.00
TOTAL	\$40.56	\$33.54	\$17.12	\$16.15	\$24.66	\$19.78	\$119.35	\$230.60	\$14.39	\$285.55





Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Communications & Signal Improvements—Transit Pr	rojects (FY	2016 - 2020)		
Broad Street Line Ridge-Spur Signals				
Moderniza of the signal system on the Broad Street Line's Broad-Ridge Spur. Project will upgrade and modernize the train control system between Fairmount Interlocking and the 8th and Ridge Terminal Interlocking.	\$6.5 M	Design 2015 - 2016 Constru on 2016 - 2018	Philadelphia	Philadelphia
Route 101/102 Signal / Interlocking Improvements				
Insta of a new trolley control system for the Route 101/102 (Media/Sharon Hill) trolley lines. The new Communica s Based Train Control (CBTC) system will autom enforce trolley separ n and provide overspeed and roadway worker protec . New power switching will improve opera al bility.	\$63.41 M	Design Complete Constru on 2015 - 2018	Delaware	Delaware
Route 102 Grade Crossings				
Upgrade seven (7) grade crossing loca s on the Route 102 (Sharon Hill) po of the Route 101/102 (Media/Sharon Hill) trolley lines. The project will install new tra control devices including new vehicular tra signals, trolley bar signals, pedestrian crossing signals, and detec and actu n control systems. Lo s include McDade Boulevard, Andrews Avenue, Bartram Avenue, Chestnut Street, Walnut Street, Broad Street, and Spruce Street.	\$5.88 M	Design Complete Constru on 2015 - 2016	Delaware	Delaware
Communications & Signal Improvements—Railroad	Projects (FY	Y 2016-2020)		
Arsenal Interlocking				
Improvements to Arsenal Interlocking (near University City Sta), which serves the Airport, Media/Elwyn and Wilmington Regional Rail lines. The project will re the exis Walnut Interlocking and incorporate its fun onality into a rebuilt and recon red Arsenal Interlocking. Includes insta of new track, catenary and signaling systems.	\$27.5 M	Design 2015 Constru on 2016 - 2017	Philadelphia	Bucks Delaware Montgomery Philadelphia Delaware (state New Jersey

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Beth Interlocking / Signal Improvements				
Insta of a new universal interlocking at Beth, to be located south of Bethayres Sta on the West Trenton Line.	\$14.0 M	Design 2017 Constru on 2018 - 2022	Bucks	Bucks
Hunt/Wayne Interlocking				
Improvements to the Hunt/Wayne Interlocking on SEPTA's Regional Rail Main Line including: insta of a new high-speed crossover between No. 2 and No. 3 tracks; insta of an independent microprocessor-based interlocking controller; and replacement of electric switches on the north end of the Wayne Interlocking.	\$14.0 M	Design 2018 - 2019 Constru on 2020 - 2021	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Communications & Signal Improvements—Railroad	Projects (FY	Y 2021 - 2027)		
Interlocking Improvement Program The program provides for the rebuilding and recon ra of railroad interlockings to improve the delivery of revenue service. Lo s included in the program are Regional Rail Main Line: West Interlocking (on the west side of 30th Street Sta); Schuylkill Interlocking (on the east side of 30th Street Sta); Broad Interlocking (west of Suburban Sta); Bartram Interlocking; and 16th Street Interlocking. The in al budget supports the start up of the program.	\$5.0 M	2021 - 2027 Project	Philadelphia	Philadelphia
Communications & Signal Improvements—System-W	Vide Project	rs (FY 2016 - 2020)		
Computer Aided Radio Dispatch (CARD) System Replacement				
Replacement of exis Computer Aided Radio Dispatch (CARD) system. Project will re e the exis 502MHz radio system and replace it with a new state-of-the-art Computer Aided Radio Dispatch and commun s network. The new CARD system will be used to dispatch SEPTA buses and trolleys. In add on, the new system will provide real- e train arrival inform n to be displayed on exis and new Audio Visual Public Address (AVPA) signs, as well as the SEPTA website. The project will modernize and improve reliability of vehicle, AVPA and website data.	\$32.5 M	Design 2016 - 2017 Constru on 2018 - 2021	System-Wide	Bucks Chester Delaware Montgomery Philadelphia Delaware (state) New Jersey

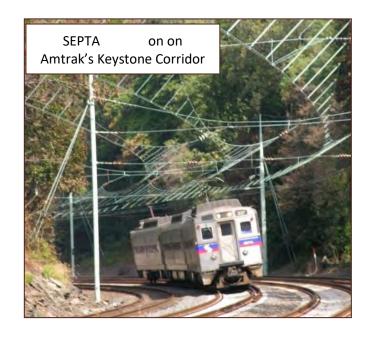
Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Real-Time Information / Audio Visual Public Address (AVPA) S	ystem			
Upgrades to public communi s systems at railroad and transit sta s, including new Audio Visual Public Address (AVPA) equipment and provision of real- e arrival inform n for customers. This project will also upgrade real- e service inform n for bus and trolley passengers.	\$26.5 M	Design 2015 - 2016 Constru on 2016 - 2019	System-Wide	Bucks Chester Delaware Montgomery Philadelphia Delaware (State) New Jersey
Technology Improvements (FY 2016 - 2027)				
Information Technology Program				
Enhancements to SEPTA's inform n technology infrastructure and applic ns. Includes new and replacement computer hardware and so are such as desktop computers, laptops, servers, network devices, digital video recorders and so are licenses. The FY 2016 program will enhance data storage and management systems, upgrade the Organiza 's e-mail system, and implement Microso SharePoint and Electronic Content Management applic ns, along with data warehouse, remote access and virtual server infrastructure. The program also includes replacement of network switches, wireless systems, computers, printers, and digital video recorders.	\$5.0 M Annually	Ongoing Program	System-Wide	Bucks Chester Delaware Montgomery Philadelphia Delaware (State) New Jersey

The Capital Asset Lease Program provides for payments ributable to capital leases. For Fiscal Year 2016, leases covered by this program include Amtrak trackage leases, a warehouse lease, copier machines throughout the Authority and commun s towers.

State and federal capital funds provide for debt service and the cost of issuance of bonds, notes and other indebtedness incurred by SEPTA.



		Budget						12-Year		
Debt Service & Leases	Prior	Year _		Program	Years		FY 2021 -	Program	Beyond	Total
Program Elements	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
					\$Millions					
Capital Asset Lease Program	\$0.00	\$34.71	\$39.89	\$45.06	\$50.24	\$52.33	\$396.10	\$618.33	\$0.00	\$618.33
Debt Service	\$0.00	\$51.15	\$51.09	\$51.00	\$50.95	\$43.30	\$224.65	\$472.14	\$17.07	\$489.21
TOTAL	\$0.00	\$85.86	\$90.98	\$96.06	\$101.19	\$95.63	\$620.75	\$1,090.47	\$17.07	\$1,107.54





Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Capital Asset Leases (FY 2016 - 2027)				
Amtrak Trackage - This lease provides for the right to use Amtrak tracks for SEPTA's Trenton, Wilmington/Newark and Paoli/Thorndale Regional Rail service, and po s of the Chestnut Hill West, Media/Elwyn, Airport and Cynwyd Regional Rail Lines. Communications Towers - This lease provides for the right to house voice and data transmission and receiving equipment on towers at the following loca s: Y-100, Loews Hotel, Malvern, West Rockhill, Oxford Valley Mall, Newtown Square, and New Britain. Copiers - This lease provides for rental of copiers, which are dispersed throughout SEPTA's headquarters and transporta /maintenance facili s. Warehouse Facility - This lease provides for rental of a storeroom facility at 2045 Wheatsheaf Lane in the City of Philadelphia.	12 Year Total \$618.33M	Ongoing Program through 2027	Bucks Chester Delaware Montgomery Philadelphia Delaware (state) New Jersey	Bucks Chester Delaware Montgomery Philadelphia Delaware (state) New Jersey

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Debt Service (FY 2016 - 2027)				
Payments on Capital Grant Receipts Bonds, Series 2011				
Acquisition of 120 Silverliner V Regional Rail Cars mu ple-unit (EMU) cars have replaced the Silverliner II and III rail cars, and provided add onal cars to supplement the regional rail car t in response to ridership growth. Vehicles fully comply with Americans with Disabili s Act (ADA) requirements and federal and state regula s regarding safety features and systems. The cars include enhanced passenger ameni s, such as larger windows, wider aisles, a state-of-the-art climate control system, and an enhanced sea arrangement with more two-passenger se g. The new cars have electronic exterior and interior des n signs, voice annun of train des and upcoming sta stops, interior video display monitors and the capability for SEPTA's Control Center to broadcast messages directly to customers on the trains. In add on, these cars are equipped with on-board video surveillance and autom passenger coun systems. The total cost for the Silverliner V Rail Car Acquisi Project (\$324 million) is funded through a combin n of grants and capita ancing. Rehabilitation of the Wayne Junction Intermodal Facility The Wayne Jun on Intermodal Facility was constructed at the turn of the 20th Century. This project provides for restoring the sta 's historic integrity while modernizing its structure to provide a more accessible and environmentally friendly facility for local residents. The project provides for the enhancement of passenger amen es such as ligh signage, shelters, audio and visual public announcement system, windscreens, benches, HVAC systems (hea ven a , air cond oning), and sanitary systems. Structural improvements include sta building rehabilita and ADA accessibility mod s, such as high level p orms, elevators, stairway renov ns, passenger tunnel improvements, new canopies and shelter improvements. The total cost of the Wayne Jun on Intermodal Facility project (\$32 million) is funded through a Federal Transit Administra Bus and Bus es Livability Grant and capital ancing. The constru on phase of the project is scheduled for co	12 Year Debt Service Total for Series 2007, 2010 & 2011 Bonds \$472.14 M	Final year of debt service funding for Series 2011 Bonds - 2028	Bucks Chester Delaware Montgomery Philadelphia Delaware (State) New Jersey	Bucks Chester Delaware Montgomery Philadelphia Delaware (State) New Jersey

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Payments on Converted Indexed Rate Revenue Refunding Bonds On December 18, 2012, the Authority converted the Variable Rate Refunding Bonds, Series 2007, from the Daily Rate Mode to the Indexed Rate Mode. Proceeds from the Variable Rate Revenue Refunding Bonds, Series 2007 were used to refund the Special Revenue Bonds, Series 1997, which provided funds for the buyout of leases on Bombardier Rail Cars, General Motors Lo ves and Frazer Rail Car Maintenance Shop and for other capital improvement projects, including the Market-Frankford Line car acquisi , Broad Street Line cable replacement, Frazer Yard interlocking constru on and Market-Frankford Line infrastructure improvements.	s, Series 2007	Final year of debt service funding for Series 2007 Bonds - 2021		
Payments on Fixed Rate Refunding Bonds, Series 2010 Proceeds from the Fixed Rate Refunding Bonds were used to refund the Special Revenue Bonds, Series 1999, which provided funds for the Market-Frankford Line cars, various capital improvement projects, and par refunding of Series 1995A Bonds.		Final year of debt service funding for Series 2010 Bonds - 2027		

INFRASTRUCTURE SAFETY RENEWAL PROGRAM (ISRP)

The annual Infrastructure Safety Renewal Program (ISRP) provides for the restora by SEPTA forces of SEPTA's City and Suburban transit and railroad infrastructure to a state of good repair. Projects to be advanced include:

- **Track and Right-of-Way** Renewal or replacement of track, switches, and special work including yard and shop areas; track surfacing; fencing; and grade crossing improvements.
- Station Facilities Rehabilita of sta buildings and associated facili s including roofs and canopies; ket o es and wai rooms; p orms; ligh sanitary f es; escalators; elevators; parking; and accessibility improvements.
- Communications and Signals Systems Rehabilita of signal systems and select commun s equipment.
- **Power Systems** Rehabilita on of electric tra on and power systems and associated components including catenary and support structures; feeders and transmission lines; and localized and centralized control facilities.
- Maintenance/Support Facilities Rehabilita of shops, maintenance/storage yards, and associated
 maintenance and support facili s, including improvements or replacement of air compressors, sump pumps,
 sprinkler systems, tunnel ligh duct banks, vehicle servicing equipment, bridges and other support
 fun ons.



		Budget						12-Year		
Infrastructure Safety Renewal Program -	Prior	Year _		Program	Years		FY 2021-	Program	Beyond	Total
Program Elements	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
					\$Millio	ns				
Infrastructure Safety Renewal Program	\$0.00	\$35.50	\$35.50	\$35.50	\$35.50	\$35.50	\$248.50	\$426.00	\$0.00	\$426.00
TOTAL	\$0.00	\$35.50	\$35.50	\$35.50	\$35.50	\$35.50	\$248.50	\$426.00	\$0.00	\$426.00





INFRASTRUCTURE SAFETY RENEWAL PROGRAM (ISRP)

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area			
Fiscal Year 2016 ISRP Program	\$35.50 M	FY 2016 Program	System-wide	System-wide			
Track and Right-of-Way Program	Communications and Signals Program						
Regional Rail - Curve Worn Rail Renewal Program (Warminster & Airport Lines); and Regional Rail Main Line and Powelton Yard Tie, Surface and Brush g Project. City/Suburban Transit - Curve Worn Rail Renewal Program; Special Track Work Renewal Program; Suburban Transit Grade Crossing Renewal Program (Route 101 Wildell Avenue & Route 102 Turner Avenue); and Route 101 Open Deck Timber Renewal Program (Bridges 3.71 and 3.77).	Regional Rail - Commun s Cable Installa Program at Chestnut Hill Chestnut Hill West and West Trenton Lines; Air Line Replacement at Vine, Schu Broad, West and 20th Streets; Temple Sta Communic n Improvements; St. Commun s Equipment Technology Refresh; Code Track Circuit Refurbishing Light Linguage Program; Stand-by Power Replace						
Station Facilities Program Regional Rail - orm Improvements Program; Temple Sta Improvements Program; Wilmington Line Sta Improvements Program; Paoli Line Sta Improvements Program; Retaining Wall Rehabilita Program. City/Suburban Transit - Sta and Tunnel Ligh Program; Norristown High	Regional Rail/City & Suburban Transit - Video Storage, Event Recorder and Audio-Vis Public Address Tech Refresh and Improvements Programs.						
Speed Line Sta Improvements; Sta Entrance/Stair Improvements (Market-Frankford and Broad Street Subway Lines); Sta orm Tac e Edge Replacement (Rt. 15); Sta n Renewal Programs: Broad Street Subway, Market-Frankford and Trolley Lines.	Regional Rail -	Perms Program Norristown Line Catenary Replations on alizing Switch/Remote Term		Control ery			
Maintenance/Support Facilities Program	•	-					
Regional Rail - Retaining Wall Rehabilita Program; Outlying Yard Safety Improvement Program; Employee es Improvement Program; Bridge Floor Beam Conne ons Repair (Mainline Bridges 0.49/0.58). City/Suburban Transit - Garage and Shop Improvements (City & Suburban Transit); Vent Well and Emergency Exit Program; Employee Facil es Improvement Program; Pump Room Overhaul Program; Sewage Ejector Replacement Program; V-tag System Upgrade; Subway Column Rehabilita .	City/Suburban Transit - DC Tra on Power Cable Replacement Program Rehabilita Program; Duct Bank Replacement Program; Trolley Wire Re Program; Trackless Trolley Power System Upgrade Program; Substa Im Program; Substa Supervisory Control and Data Acquis on (SCAD) Upgrade: Substa Control ery Replacement; and Bridgeport Moto						

This project provides for improvements at SEPTA's bus and rail maintenance shops, facil es maintenance shops and o buildings. Program elements include replacement of suppression systems, vehicle washer systems, and boiler systems; wheel truing program; bus and steel wheel programs; underground storage tank replacement program; shop and yard upgrades; paving improvements; and o e building improvements. This program will also address remed and clean up es at select faci es as well as v es that will reduce SEPTA's carbon footprint. In add on, SEPTA will advance a roof rehabilita n and replacement program, which will be conducted at several vehicle maintenance, support es, shops, substa s, and o buildings.



		Budget						12-Year		
Maintenance/Transportation Shops & Offices	Prior	Year		Program	n Years		FY 2021 -	Program	Beyond	Total
Program Elements	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
						\$Millions				
Maintenance/Transportation Facilities	\$14.42	\$16.68	\$5.60	\$5.85	\$9.75	\$6.50	\$61.75	\$106.13	\$67.68	\$188.23
Roof Program	\$20.18	\$8.98	\$4.40	\$3.15	\$5.25	\$3.50	\$33.25	\$58.53	\$36.45	\$115.16
TOTAL	\$34.60	\$25.66	\$10.00	\$9.00	\$15.00	\$10.00	\$95.00	\$164.66	\$104.13	\$303.39







Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Maintenance & Transportation Facilities (FY 2016 - 2	2020)			
Allegheny Bus Washer				
Replacement and upgrade of exis vehicle wash systems at Allegheny Bus Garage.	\$3.55 M	Design 2015 Constru on 2016 - 2017	Philadelphia	Philadelphia
Allegheny Fire Suppression				
Replacement and upgrade of re sprinkler system at Allegheny Garage.	\$4.16 M	Design Complete Constru on 2015 - 2016	Philadelphia	Philadelphia
Boiler Replacement Program				
Replacement of boilers at eleven (11) SEPTA facili es including Callowhill Garage, Woodland Shop, Elmwood Shop, Bridge St. Carhouse, 5800 Bustleton, Roberts Ave. Shop, Wayne Jun on Shop, Wayne Jun on Line Maintenance, Roberts Ave. Train Wash Building, Allegheny Garage and 69th St. Terminal. Boiler replacement was previously completed at Southern Garage and is underway at Comly Garage.	\$11.62 M	Design / Construc 2015 - 2020	Delaware Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Environmental Clean Up and Protection				
v es include remed on and tes associated with underground storage tanks, lead-based paint and asbestos abatement, contaminated soil and groundwater, and air quality. Site assessments to determine environmental exposures prior to acquiring prope s are also included under this program. The program also includes ac i s that will reduce SEPTA's environmental footprint, such as recycling containers, trash compactors and wayside energy storage.	\$5.00 M	Ongoing	Bucks Chester Delaware Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Frankford Transportation Building				
Constru on of a new stand-alone transporta building at the Frankford Transporta Center. This consists of two components. The Transporta Building will accommodate SEPTA Opera s personnel. The second component consists of the space for an Ancillary Control Center.	\$9.40 M	Design Complete Constru on 2015 - 2016	Philadelphia	Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Frazer Rail Shop and Yard Upgrade				
This project consists of the upgrade of the Frazer Maintenance Facility and provision of add onal yard track and storage to accommodate the expansion of SEPTA's railcar et and locomo ves. This includes the extension to three exis storage tracks, addi of three new storage tracks and major upgrades to the repair shop, constru on of a shop extension to accommodate the new mul -level trains, new cleaning track and u ity upgrades. In add on, the roof will be upgraded, including replacement of mechanical equipment and electrical connec s.	\$78.0 M	Design 2016 Constru on 2017 - 2018	Chester	Bucks Chester Delaware Montgomery Philadelphia
Frazer Rail Shop Vehicle Washer Building				
Insta of a new vehicle washer at Frazer Rail Shop, located along the Paoli/Thorndale Regional Rail Line. Exis washer has exceeded useful life and is no longer capable of performing at an acceptable level.	\$3.35 M	Design 2016 Constru on 2018 - 2019	Chester	Bucks Chester Delaware Montgomery Philadelphia
Frontier Bus District/Shop STD LED Lighting Upgrade Program				
This project includes the design and insta of new ligh control panels and distribu circuits at Fron r Bus Depot for ligh of the parking f es and areas around the facility buildings; replacing the exis light ures with energy e ent LED ures; and adding ures to increase light levels to current standards.	\$0.50 M	Constru on 2015 - 2016	Montgomery	Bucks Chester Delaware Montgomery Philadelphia
Frontier Bus Washer				
Replacement and upgrade of Fron r vehicle washer.	\$1.75 M	Design 2017 Constru on 2019 - 2020	Montgomery	Bucks Chester Montgomery
Frontier Paving				
Rehabilitate apron paving at Fron r Bus Garage to correct se lement and paving cond on issues.	\$1.30 M	Design Complete Constru on 2019 - 2020	Montgomery	Bucks Chester Montgomery

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Midvale Bus Washer				
Replacement and upgrade of exis vehicle wash systems at Midvale Bus Garage.	\$3.55 M	Design Complete Constru on 2015 - 2016	Philadelphia	Philadelphia
On-Site Power for Major Facilities				
Insta of power upgrades at major maintenance and transporta facilies.	\$9.22 M	Design 2015 - 2016 Constru on 2017 - 2020	TBD	TBD
Powelton Yard Employee Improvements				
Improvements to this SEPTA maintenance loca at Powelton Yard will include building repairs, new windows, new bathrooms and replacement of the storeroom facility currently housed in a former railroad boxcar. Powelton Yard will be recon gured to permit emergency vehicle access not currently available.	\$1.47 M	Design 2015 - 2016 Constru on 2016 - 2017	Philadelphia	Philadelphia
Roberts Car Shop and Car Wash Catenary Replacement				
This project replaces the original overhead trolley wire with a new rigid overhead conductor rail system at the Shop and Vehicle Washer building. The overhead conductor rail system is extremely reliable and requires e maintenance. The overhead conductor rail can be directly combined with the contact wire, which enables it to be integrated into exis overhead contact line systems. The overhead contact systems in the Roberts Car Wash and Car Shop have been in con ous use since the shop was t built in the 1980's. The exis catenary system is past its useful life and has become d ult to maintain. The new conductor rail system will provide for a reliable and easy to maintain contact system throughout the Roberts Car Wash and Car Shop Building.	\$0.69 M	Design Complete Constru on 2016 - 2017	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
SEPTA Headquarters Improvements				
The SEPTA ce Building located at 1234 Market Street was built in 1973 and has served as SEPTA's Headquarters since June 1994. Much of the infrastructure equipment is original or was only par upgraded at the me of purchase by SEPTA. Many cal components are now well past their useful service lives. Upgrades that will be advanced include rebuilding the cooling towers and roof fans, reglazing the building's southern façade to reduce solar gain, replacement of the hot water system and replacement of the water and re pump systems.	\$5.25 M	Design 2015 - 2016 Constru on 2015 - 2017	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Southern Stormwater Management & Paving				
Rehabilitate apron paving at Southern Bus Garage to correct se lement and paving cond on issues. A new stormwater management system will be installed.	\$4.92 M	Design Complete Constru on 2016 - 2017	Philadelphia	Philadelphia
Steel Wheel Lift Program				
Purchase and insta of Truck and Body hoist at 69th St. Shop and rebuilding and upd g controls for truck and body hoists at Fern Rock Shop, Woodland Shop, 69th St. Shop, Media-Sharon Hill Shop, Overbrook Shop and Roberts Avenue Shop.	\$9.00 M	Design 2016 Constru on 2017—2020	Philadelphia Delaware	Bucks Chester Delaware Montgomery Philadelphia
Underground Storage Tank Replacement Program				
Replacement of twenty- e (25) underground bulk id (he g oil, gasoline, diesel, an -freeze, motor oil, transmission id, etc.) storage tanks at seven loca s, including Powelton, Wayne, Berridge, Fron r, Victory, Courtland and Southern f es. The replacement of underground bulk storage tanks at the end of Original Equipment Manufacturer (O.E.M.) 30 year warranty terms is a common industry pra ce encouraged by the Pennsylvania Department of Environmental Pro on (DEP). This project will take place in three phases over six years.	\$2.76 M	Constru on 2016 - 2021	Delaware Montgomery Philadelphia	Delaware Montgomery Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Victory Avenue Facility Improvements				
This project provides for constru on to replace SEPTA workshop and o f es located at 103 Victory Avenue in Upper Darby, PA. The sta at this loca supports the opera of SEPTA's Surface Transporta Victory Division. This project will address the need for expanded work areas for greater e encies. In add on, improved stormwater strategies will be put into place.	\$13.24 M	Design 2015 - 2016 Constru on 2016 - 2017	Delaware	Delaware Philadelphia
Wheel Truing Program				
Rebuilding and upd g of controls for wheel truing machines at Fern Rock Shop, Woodland Shop, 69th St. Shop and Overbrook Shop.	\$21.00 M	Design 2015 Constru on 2016 - 2027	Delaware Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Woodland Fire Suppression				
Replacement and upgrade of exis sprinkler system at Woodland Rail Shop.	\$1.86 M	Design Complete Constru on 2014 - 2016	Philadelphia	Philadelphia
Maintenance & Transportation Facilities (FY 2021 - 2027)				
Bus Lift Program				
This project provides for the replacement of in-ground s and portable li at selected City Transit and Suburban Transit bus maintenance facil es.	\$10.00 M	2021 - 2027 Project	Delaware Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Overbrook Washer				
Constru on of a new vehicle washer with enclosure at Overbrook Shop.	\$3.20 M	2021 - 2027 Project	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia

MAINTENANCE/TRANSPORTATION SHOPS AND OFFICES

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Overhead and Fire Doors				
Replacement of overhead and re doors at various f es.	\$6.26 M	2021 - 2027 Project	Bucks Delaware Philadelphia	Bucks Delaware Philadelphia
Vehicle Washer Program				
Replacement and upgrade of vehicle washers at add onal loca s.	\$7.00 M	2021 - 2027 Project	TBD	TBD
Roof Program (FY 2016 - 2020)				
2nd & Wyoming/Berridge Roof Replacement				
Replacement of exis roof at SEPTA's 2nd & Wyoming and Berridge Bus Maintenance Facility with new 5-ply coal tar build-up roo g system. Includes replacement of mechanical equipment, electrical conne ons for the Bus Maintenance Facility and 2nd & Wyoming Avenue Building, and asbestos abatement.	\$15.84 M	Design Complete Constru on 2015 - 2016	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
69th St. Terminal/MSHL Shop Roof Replacement				
Replacement and upgrade of exis roofs with new 5-ply coal tar build-up roo g system. Includes replacement of mechanical equipment, electrical conne ons, and terra co a and brick repairs.	\$14.10 M	Design 2015 Constru on 2016 - 2019	Delaware	Delaware Montgomery Philadelphia
Broad Substation Roof Replacement				
Replacement of roof at Broad Substa located on Mt. Vernon Street and serving the Broad Street Line.	\$2.00 M	Design 2016 Constru on 2017 - 2018	Philadelphia	Philadelphia
Callowhill Roof Replacement				
Replacement and upgrade of exis roof at Callowhill Garage with new 5-ply coal tar build-up roo g system including drainage and downspout repairs.	\$8.80 M	Design Complete Constru on 2014 - 2016	Philadelphia	Philadelphia
Courtland Shop Roof Replacement				
Replacement of Courtland Shop roof including asbestos abatement.	\$7.15 M	Design 2016 - 2017 Constru on 2019 - 2020	Philadelphia	Philadelphia

MAINTENANCE/TRANSPORTATION SHOPS AND OFFICES

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Frontier Bus Garage Roof Replacement				
Replacement of exis roof with new roo g system.	\$3.50 M	Design 2016 - 2017 Constru on 2019 - 2020	Montgomery	Bucks Chester Delaware
Overbrook Maintenance Facility Roof Replacement				
Replacement and upgrade of exis roof with new 5-ply coal tar build-up roo g system. Includes replacement of mechanical equipment and electrical conne ons.	\$7.55 M	Design 2016 - 2017 Constru on 2018 - 2019	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Sansom Substation Roof Replacement				
Replacement of roof at Sansom Substa .	\$2.00 M	Design 2016 Constru on 2017 - 2019	Philadelphia	Philadelphia
Woodland Shop Roof Replacement				
Replacement and upgrade of exis roof with new 5-ply coal tar build-up roo g system. Includes replacement of roof-mounted HVAC equipment, and re-caulking and pain of the exterior walls of the building.	\$6.11 M	Design Complete Constru on 2015 - 2016	Philadelphia	Delaware Philadelphia
Roof Program (FY 2021 - 2027)				
5800 Bustleton Roof Replacement				
Replacement of roof at SEPTA o e building located at 5800 Bustleton Avenue.	\$1.75 M	2021 - 2027 Project	Philadelphia	Philadelphia
Comly Roof Replacement				
Replacement and upgrade of exis roof at Comly Garage with new 5-ply coal tar build-up roo g system. Includes replacement of mechanical equipment and electrical conne ons.	\$7.70 M	2021 - 2027 Project	Philadelphia	Philadelphia
Norristown High Speed Line Car Shop Roof Replacement				
Replacement of exis roof at the Norristown High Speed Line Rail Car Shop with new 5-ply coal tar build-up roo g system. Includes replacement of mechanical equipment and electrical connec s.	\$7.00 M	2021 - 2027 Project	Delaware	Delaware Montgomery Philadelphia

MAINTENANCE/TRANSPORTATION SHOPS AND OFFICES

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area					
Regional Rail Stations Roof Program									
Roof replacement at various small to medium sta s. Lo s to be determined.	\$7.00 M	2021 - 2027 Project	Various	Various					
Southern Garage Roof Replacement									
Replacement and upgrade of exis roof system at Southern Garage.	\$7.70 M	2021 - 2027 Project	Philadelphia	Philadelphia					

NEW PAYMENT TECHNOLOGIES - SEPTA KEY

The SEPTA "Key" New Payment Project will modernize SEPTA's an ated fare payment and collec system by o ering riders a variety of payment choices to suit their travel needs. Fareboxes on buses and light rail vehicles will accept electronic fare media such as contactless cards and emerging media forms. New vending machines located in sta s and other terminal loca s will improve customer convenience for fare instrument purchases. Electronic media will also be widely available in retail establishments throughout the SEPTA service area and will be reloadable: 1) at vending machines or cket o es; 2) autom through an account with SEPTA; or 3) through an on-line transac .

In add on to bus, rail transit, and regional rail fare colle on improvements, this project will include improvements to the payment and collec procedures for SEPTA's Customized Community Transporta (CCT) oper n and SEPTA's parking opera s. Computer equipment and so are systems will support the enhanced system-wide fare colle on system.

A contract was awarded to ACS Transport Solu s, Inc. (now a subsidiary of Xerox Corpora) in November 2011. The SEPTA "Key" system will be implemented in phases. Phase 1 of the project will include the complete design, deployment of the data network backbone of the rail transit system, and advance pilot tes of the

SEPTA "Key" system. Phase 2 will include the insta on of the system on Rail Transit, Trolley and Bus eets. Phase 3 includes the Regional Rail, Parking Opera s and Customized Community Transporta (CCT) segments.

Companion projects suppo ng the SEPTA "Key" project include: bus and trolley farebox upgrade; Market-Frankford Line and Broad Street Line er op cs improvements; electrical support for new fare lines at e downtown Railroad sta s (Temple University, Je erson, Suburban Sta , 30th Street Sta and University City); Broad Street Subway, Market Frankford and Trolley sta fare line improvements; zone o s to monitor fare lines and assist passengers; control mod s for elevators; remote Railroad sta wai ng room security; provide power to Railroad Parking Payment Sta s; and 30th Street Railroad Sta ket /vendor reloca s. These SEPTA "Key" companion projects are necessary to provide enhanced customer service and achieve cost e encies and revenue enhancements.

The SEPTA Board approved a loan agreement with the Philadelphia Industrial Development Corpora (PIDC), Limited Partnership (LP) XXVIII, to ance this project. The total project cost includes the loan repayment, interest on the loan and companion project costs.

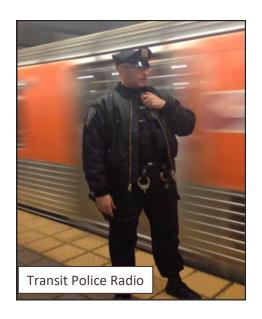
		Budget	-					12-Year		
New Payment Technologies	Prior	Prior Year Program Years					FY 2021-	Program	Beyond	Total
New Payment Technologies	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
					\$Millio	ns				
New Payment Technologies	\$25.36	\$45.00	\$82.00	\$74.64	\$0.00	\$0.00	\$0.00	\$201.64	\$0.00	\$227.00
TOTAL	\$25.36	\$45.00	\$82.00	\$74.64	\$0.00	\$0.00	\$0.00	\$201.64	\$0.00	\$227.00







SEPTA's mission is to provide our passengers with safe, reliable and e ent transporta . Safety is a key objec e of SEPTA's Strategic Business Plan. All projects advanced in the capital program have a safety t focus from start to comple . This program includes life safety assessments, facility and vehicle security measures and interoperable commun s improvement projects. This program also includes projects funded with compe ve U. S. Department of Homeland Security grant funds. The Authority is part of the Philadelphia Area Regional Transit Security Working Group (PARTSWG), which is working to advance safety and security improvements for all transit opera s into and out of Philadelphia and the surrounding area.



Cofety & Cognity Improvements	Prior	Budget Year		Progran	n Years		FY 2021-	12-Year Program		Total
Safety & Security Improvements	Funding	FY 16	FY 17	FY 18	FY 19 \$Millio	FY 20	2027	Total FY 2027		Budget
Safety & Security Improvements	\$0.00	\$20.00	\$12.00	\$10.00	\$10.00	\$10.00	\$100.00	\$162.00	\$0.00	\$162.00
TOTAL	\$0.00	\$20.00	\$12.00	\$10.00	\$10.00	\$10.00	\$100.00	\$162.00	\$0.00	\$162.00







Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Safety & Security Projects (FY 2016 - 2020)				
Fall Arrest - Frazer and Berridge				
This project will consist of the insta of fall arrest pro on equipment at various work loca s throughout SEPTA. SEPTA has developed a program to install fall arrest equipment at all SEPTA maintenance shops in support of employee maintenance of vehicles. All vehicle maintenance lanes will be equipped. This is a e year program and two loca s will be completed each year. es in Year 1 include Berridge and Frazer Shops. Future facility loca s include Courtland, Germantown, Comly, Fron r, Fern Rock, Allegheny, Callowhill, Frankford and Midvale.	\$0.7 M	2016 - 2020 Project	Chester Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia Delaware (State) New Jersey
Midvale Power Relocation and Security Enhancements This project provides for the construe on of a new consolidated employee and storage facility at SEPTA's Midvale Complex. This facility is needed to provide a consolidated, accessible, secure and fune onal facility for SEPTA Power, Track, Bridges and Buildings, and Ues personnel and protect high cost material used for SEPTA operaes from the and damage. As part of this project, Life Safety improvements including suppression, security elements, communicaes systems and perimeter fencing will be installed.	\$26.7M	Design 2017 Constru on 2018 - 2020	Philadelphia	Philadelphia
Pedestrian Railroad Crossings				
This project will provide for the insta of rail crossing pedestrian warning systems for implementa at passenger sta s and other loca s. This is a mu -year program with three loca s being completed each year. Priority regional rail line lo s include the Airport Line, West Trenton Line, Media/ Elwyn Line, Lansdale/Doylestown line and the Warminster Line. Phase 1 will include pedestrian crossing improvements at Bethayres, Rydal and Trevose St ns.	\$7.6 M	2016 - 2020 Project	Bucks Delaware Montgomery Philadelphia	Bucks Delaware Montgomery Philadelphia

Project Descriptions	Budget Schedule / Stat (Calendar Year)		Location	Service Area
Radio Interoperability This project will complete the replacement of 40-year old radiax cable in the Market-Frankford Subway and Broad Street Subway, and also provide new radio equipment for the Market Street, Trolley and Railroad tunnels. This project will upgrade SEPTA's sub-surface commun s infrastructure with a new distributed communica system, which will provide the capability to communicate both above and below ground using two dierent frequencies: SEPTA's exis train dispatch and maintenance channels, and the City of Philadelphia's trunked radio commun channels for the City's police and emergency medical services.	\$19.7 M	Design Complete Constru on 2015 - 2016	Bucks Chester Delaware Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Regional Rail Division Signal Overrun Indications This project provides for the installa of new er units on the exis railroad track circuit detector devices that serve to indicate when a train has violated a Home Signal Displaying Stop Signal (overrun). The exis track circuit detector units are being unduly in enced by stray eman ns generated by the Silverliner V Propulsion System. Tunnel Ventilation System Modifications	\$2.1 M	Design Complete Constru on 2015 - 2016	Bucks Chester Delaware Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Following the recent tunnel incident on the Washington Area Metro Transporta Authority (WMATA), on February 11, 2015, the N nal Transporta Safety Board (NTSB) recommended a n nwide audit of transit agencies by the FTA to assess the state of ven on systems, w en emergency procedures for and smoke events, and training to ensure compliance with these procedures. Furthermore, the NTSB recommended that the FTA verify that agencies are applying the best industry standards in maintenance and emergency procedures. This project will provide for two engineering assessments for the modeling of exis ven n and ow through the regional railroad Center City Tunnel and the Market Subway and Broad Street Subway Tunnels. The assessments will provide SEPTA with present day life safety cond ons and recommend ns for improvements to the ven a in each tunnel.	\$1.3 M (Assessment)	Assessment 2015 - 2016 Constru on schedule to be developed	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Wayne Junction Security Improvements				
This project provides for the design and insta of security measures for the Electric Tra on (ET) Wire Train while being stored on the Right-of-Way at the Wayne Junc Car Shop. The ET Wire Train consists of a gondola car, reel car and tower car. In the past, the of exposed new and scrap copper wire from the ET Wire Train has occurred at Wayne Jun on Car Shop despite numerous empts to improve security, including new fencing and improved ligh. This project brings new improvements that include a lockable lid for the gondola car and security features on the reel car, plus add onal new ligh and security fencing along the SEPTA Right-of-Way between Germantown Avenue and North 18th Street.	\$2.0 M	Design 2015 - 2016 Constru on 2016 - 2017	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Transit Security Grant Projects (FY 2016 - 2020)				
Through the U.S. Department of Homeland Security, the Transit Security Grant Program provides funds to operators of transit systems to protect cri al infrastructure from acts of terrorism, major disasters and other emergencies. From this grant program, SEPTA has funded closed circuit television (CCTV) cameras on vehicles; mul -jurisd onal counter terrorism emergency simula drills on various transit modes; directed SEPTA Transit Police Patrols in strategically designated areas during periods of elevated alert and an -terrorism teams; hazardous material Iden kits for Special Opera s and Response Teams (SORT); purchase of explosive detec on devices, intrusion de on and surveillance equipment, and bulletproof vests; Special Opera s and Response Teams (SORT) and K-9 patrol teams; upgraded mobile commun s and Control Center monitoring equipment; implementa of video surveillance cameras at transit f es; and implementa of a radio interoperability system (RIOS) for the Philadelphia region. SEPTA will con e to fund eligible projects from this grant program.	Compe ve Annual Program \$2.5 M	2015 - 2016	Bucks Chester Delaware Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia

SERVICE RESTORATIONS

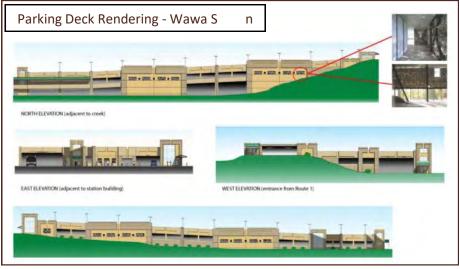
With the add onal capital funds resu ng from the passage of State Act 89 of 2013, SEPTA is now in a ancial pos on to advance the Elwyn to Wawa Rail Restora project. Except for some right-of-way improvements funded with federal s ulus money, this service restora project was previously on hold due to funding limita s.

In the er part of the twelve year capital program, SEPTA will review the feasibility of restoring trolley service to Routes 23 and 56. Funds in the twelve year capital program are needed to address: 1) the replacement or rehabilita of assets that have exceeded their useful life; 2) the demands upon the transit and regional rail

systems resu ng from increased ridership; and 3) enhanced accessibility of the system. SEPTA will con e to work with its partners, the Delaware Valley Regional Planning Commission (DVRPC), the City of Philadelphia, the Coun s of Bucks, Chester, Delaware and Montgomery, and other regional partners, in seeking regional consensus on future rail service expansion in ves and with the development of funding strategies/op s for advancing future expansions projects, including the Federal New Starts Program.

		Budget						12-Year			
Service Restorations and Expansions -	Prior	Prior Year Program Years				FY 2021-	Program	Beyond	Total		
Project Elements	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget	
					\$Milli	ons					
Elwyn to Wawa Rail Service	\$11.65	\$1.00	\$2.00	\$12.50	\$30.00	\$31.99	\$15.86	\$93.35	\$0.00	\$105.00	
Trolley Routes 23 & 56	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2.00	\$2.00	\$0.00	\$2.00	
TOTAL	\$11.65	\$1.00	\$2.00	\$12.50	\$30.00	\$31.99	\$17.86	\$95.35	\$0.00	\$107.00	





SERVICE RESTORATIONS

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Elwyn to Wawa Rail Service (FY 2016 - 2020)				
This project will provide for a three mile restora of rail service from the exis Media/Elwyn Regional Rail Line terminus at Elwyn, Delaware County, to a new terminus in Wawa, Delaware County. The scope of work for this project consists of track bed reconstru on including cross s, con ous welded rail and track interlockings; catenary system rehabilita; a bi-direc al signal system with automated train controls and posi e train control; and commun s system improvements. The new terminus at Wawa will include a sta building with a passenger w g area and restroom facili es; a high level island p orm with canopy and windscreens; a pedestrian underpass with accessible ramps and stairways; and a 500+ car parking deck. Add onal project elements include the replacement of three bridges; rehabilita of one bridge and three culverts; and the constru on of a railcar storage/layover yard and crew facility on SEPTA property in Lenni, Delaware County. A new tra interse on and access road conne ng the sta to U.S. Route 1, a major highway artery in the area, will be constructed. The new facility will be fully ADA compliant. A companion project addressed cal track bed stabiliza improvements along the route. Catenary/Signal/Track Improvements, Bridge Replacements/ Rehabilita, and the new Sta and Parking Deck will advance in concurrent constru on phases beginning in 2017.	\$105.00 M	Bridges, St n and Parking Deck Design Complete Power, Signals and Track Design 2017 - 2018 Constru on 2017 - 2020	Delaware	Chester Delaware
Trolley Routes 23 & 56 (FY 2021 - 2027)				
In the er part of the twelve-year capital program, SEPTA will review the feasibility of restoring trolley service to Routes 23 and 56. These routes, which are located in the City of Philadelphia, are currently served by buses.	\$2.00 M	2021 - 2027 Project	Philadelphia	Philadelphia

This program provides for the constru on, reconstru on or rehabilita of transit and regional rail s and terminals, bus/trolley loop f centers, bicycle faci es, and parking es, transporta expansions and improvements. Program elements include the replacement or rehabilita of sta loop facility components, such as sta buildings, ket o s, and w g rooms, passenger shelters, canopies, p orms, crosswalks and overpasses, escalators and elevators, ligh signage, and accessible provide opportun es for par ip n with SEPTA by private developers paths. These projects poten s. All improvements fully comply with requirements of the Americans with Disabili es Act and municip of 1990. To date, SEPTA has 104 accessible sta s and operates 101 passenger elevators.

SEPTA Station Inventory

Loops	38
Parking Spaces	28,913
Rail Transit Stations	128
Regional Rail Stations	153
Transportation Centers	11

		Budget	•	•	•	-	-	12-Year		
Stations, Loops & Parking	Prior	Year		Program	Years		FY 2021 -	Program	Beyond	Total
Program Elements	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
					\$Millions-					
City Hall & 15th Street Stations	\$26.47	\$5.00	\$10.00	\$20.00	\$20.00	\$15.00	\$50.00	\$120.00	\$0.00	\$146.47
Exton Station & Garage	\$14.96	\$0.00	\$2.70	\$2.00	\$5.80	\$11.50	\$20.26	\$42.26	\$0.00	\$57.22
Levittown Station	\$8.08	\$4.00	\$10.00	\$9.00	\$5.99	\$0.00	\$0.00	\$28.99	\$0.00	\$37.07
Paoli Transportation Center	\$31.61	\$5.50	\$6.50	\$0.00	\$0.00	\$3.00	\$50.51	\$65.51	\$0.00	\$97.12
Parking Improvements	\$16.66	\$5.68	\$3.78	\$5.25	\$9.17	\$3.89	\$144.19	\$171.95	\$58.83	\$247.44
Transit & Regional Rail Stations	\$71.90	\$22.72	\$11.33	\$9.75	\$17.04	\$7.22	\$267.78	\$335.82	\$109.26	\$516.98
Villanova Station	\$7.90	\$4.10	\$3.70	\$2.00	\$2.00	\$4.40	\$6.50	\$22.70	\$0.00	\$30.60
TOTAL	\$177.58	\$47.00	\$48.00	\$48.00	\$60.00	\$45.00	\$539.23	\$787.23	\$168.09	\$1,132.90





Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
City Hall & 15th Street Stations				
This project will provide for the renov n of City Hall Sta on the Broad Street Line and 15th Street Sta on the Market-Frankford Line. These sta s are part of a junc point among the Broad Street Line, the Market-Frankford Line, Trolley Routes 10, 11, 13, 34 and 36, and the Regional Rail Lines.				
The project will include the following elements: 1) New entrance to the Broad Street Line, Market-Frankford Line and eastbound trolley Line sta in Dilworth Park, west of City Hall; 2) Accessible improvements including elevators from street level to the p orms of all three sta s;		Dilworth Park Early Phase Constru on Complete 2014		
3) Mod of fare colle on facili s; 4) More open space at the p orm level of City Hall Sta ; 5) Straightening, widening and ramping of inter-sta corridors; 6) New architectural ishes, ligh and signage; 7) Art-In-Transit; 8) Mechanical and natural ven in re-opened air sh ; 9) Structural repairs; 10) Preven /intercep of water in /in w; and 11) Raising of p orms to car door entrance height. This project is being advanced in three phases: Dilworth Park "Early on", 15th Street Sta and City Hall Sta .	\$146.47 M	15th Street & City Hall Sta s Design 2014 - 2017 Constru on: 15th Street 2016 - 2018 City Hall 2017 - 2021	Philadelphia	Philadelphia
Exton Station High-Level Platforms & Garage				
This project, which will be advanced in phases, will provide for the construction of high-level platforms, a station building, bus circulation loops, and a multi-level parking garage at Exton Station on the Paoli-Thorndale Regional Rail Line. Phase I will include the construction of high-level platforms with canopies and wind screens, and a new station building. The platforms, stairs, ramps, sidewalks and pathways will be fully ADA compliant. New lighting, signage, security features, and passenger amenities will also be provided as part of the project. Phase 2 will provide for the construction of bus circulation loops with bus shelters. The planned bus circulator loops will promote intermodal access to the station. Phase 3 will provide for a fully accessible, multi-level parking garage with pathways to the station platforms. The number of parking spaces and garage levels will be determined as part of the Phase 3 design.	Phase 1: \$17.70 M Phase 2 & 3: \$39.52 M Total Project: \$57.22 M	Phase 1: Design Complete Constru on 2015 - 2017 Phase 2 & 3: Design 2017 - 2019 Constru on 2021 - 2022	Chester	Chester

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Levittown Station Reconstruction				
This project provides for improvements to Levittown Station on the Trenton Regional Rail Line. Levittown Station improvements consist of new high level platforms with canopies; replacement of the station building; ADA accessibility improvements, parking improvements, stormwater management, new signage, lighting and passenger amenities. A new pedestrian overpass complete with elevators will be constructed to replace the old tunnel. Bus loops will be constructed and bus shelters installed to promote intermodal access. Improved traffic flow through the station and parking areas will improve safety for motorists and pedestrians.	\$37.07 M	Design Complete Constru on 2015 - 2018	Bucks	Bucks
Paoli Intermodal Transportation Center				
This project provides for the engineering and construction of a new multimodal transportation center in Paoli, Chester County. The new facility will be located on the Paoli/Thorndale Regional Rail Line at the approximate location of the existing station. Connecting services include Bus Routes 92, 105, 106, 204, 205 and 206. SEPTA is partnering with PennDOT and Amtrak to advance this project. The project will be advanced in two phases. Phase 1 will make the existing station ADA accessible. This phase includes construction of a pedestrian overpass with a total of three elevators linking inbound and outbound station parking lots as well as a new high level center platform. The outbound parking areas will be reconfigured and pedestrian linkages, such as sidewalks and crosswalks, will be provided throughout the station area. Phase II includes an intermodal station complex complete with an additional high-level platform on the outbound side, waiting area, ticket offices, passenger amenities; enhanced bus facilities and a 600-plus space commuter parking garage. A companion PennDOT project will consist of the extension of Darby Road over the railroad, including a new bridge connecting to the station and the removal of the North Valley Road bridge.	Phase 1: \$36.00 M Phase 2: \$61.12 M	Design Underway Phase 1: Design 2014-2015 Constru on 2016 - 2018 Phase 2: FY 2021 - 2027 Project Constru on Schedule to be Developed	Chester	Chester

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area	
Parking Improvements/Expansions (FY 2016 - 202	0)				
69th Street Transportation Center Parking Garage					
This project will provide for the constru on of a 500-space, fully accessible parking garage including pedestrian conne ons to the 69 th Street Transporta Center. SEPTA is evalu g partnership opportun es for advancing this project. The 69 th Street Transporta Center is an intermodal transporta facility which serves as a terminus for SEPTA customers using the Market-Frankford Line, the Norristown High Speed Line, Trolley Routes 101 & 102 and 17 SEPTA bus routes. Phase 1 of the project will address site and u ity work within the project perimeter, as well as electrical faci es upgrade. Phase 2 will progress as a joint development/P3 project, and will include a parking garage and bus terminal, and pathways to the transporta center for SEPTA as well as private development on the site. The new garage facility would also provide parking for 69 th Street Historic Shopping District customers, patrons of the Tower Theater and the AMC Theater on 69 th Street during evenings and weekends.	\$31.00 M	Design Complete Phase 1: Constru on 2015 - 2016 Phase 2: Joint Development Project Constru on 2016 - 2018	Delaware	Chester Delaware Montgomery Philadelphia	
The project provides for the construe on of a fully accessible parking garage at the Lansdale Regional Rail Staes. In add on, the following Lansdale area	\$38.4 M Garage	wn Regional Ruii Line			
companion improvements will be advanced: improvements to the Main Street entrance to the sta n, constru on of a bus laydown area south of	\$3.6 M 9th Street Sta	Design Complete Constru on 2015 - 2017	Montgomery	Montgomery	
Main Street adjacent to the tracks and construon of a new staat 9th Street.	\$4.8 M Bus Layover				
Noble Station Parking Garage and Storage Track on the West Trenton Rail Line					
Constru on of sta improvements, new parking garage and storage track. Noble Sta will receive a new sta building with ADA improvements, including high-level p orms with ta le edging; new passenger shelters; accessible stairs, ramps, sidewalks and handrails/guardrails; new signage, ligh security cameras; stormwater management systems and landscaping.	\$53.00 M	Design 2016 - 2018 Constru on 2021 - 2027	Montgomery	Bucks Montgomery Philadelphia	

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Railroad Parking Expansion at Gwynedd Valley, North Wales a	nd Philmont	Stations		
This project provides for parking expansion and improvements at three SEPTA sta s. Work will include constru on of new parking spaces, improvements to the exis parking lot, new curbing, accessible pathways, signage, new ligh stormwater management system improvements and landscaping. Lo s include Gwynedd Valley and North Wales Sta s on the Lansdale/Doylestown Regional Rail Line and Philmont Sta on the West Trenton Regional Rail Line.	\$9.00 M	Gwynedd Valley & North Wales Design 2014 - 2015 Constru on 2015 - 2016 Philmont Design TBD	Montgomery	Montgomery
Parking Improvements/Expansions (FY 2021 - 2027))			
Fern Rock Complex				
This project provides for sta improvements and ADA accessibility including stairs and ramps; new structured parking deck and surface lot; improved access between the Regional Rail and Broad Street lines; new bus shelters; and signage, ligh , and drainage improvements.	\$77.50 M	2021 - 2027 Project	Philadelphia	Bucks Montgomery Philadelphia
Manayunk/Norristown Regional Rail Line Parking Expansion				
The project will provide for the design and construon of a parking garage at Conshohocken Sta and parking expansions at other stas along the line.	\$27.50 M	2021 - 2027 Project	Montgomery Philadelphia	Montgomery Philadelphia
Transit & Regional Rail Stations Program— Regional	Rail (FY 2	016 - 2020)		
Bicycle Transit Access Program		·		
Insta of new bicycle parking shelters at select Regional Rail sta s across the SEPTA service area. Insta will consist of constru ng a concrete foo and slab for a pre-cast fabricated structure and bicycle parking racks. This project will in ally be advanced as a three-year, phased program providing bicycle parking shelters at 15 Regional Rail sta s per year. The add on of bicycle parking shelters will improve bicycle access and security at SEPTA Regional Rail sta s, encouraging more customers to bike rather than drive. This will increase the size of the car-free commuter-shed for the ected sta s, allowing more customers to use SEPTA without a personal car or add onal bus ride.	\$3.00 M	Design Complete Constru on 2016 - 2018	Bucks Chester Delaware Montgomery Philadelphia New Castle, DE	Bucks Chester Delaware Montgomery Philadelphia Delaware (State)

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Ardmore Station and Parking Garage				
This project, which will be advanced in phases, will provide for the constru on of a fully accessible sta with high level porms, a new sta building, mu-level parking garage and bus circula improvements at the Ardmore Transit Center on the Paoli/Thorndale Regional Rail Line. Conne ng services include SEPTA Bus Routes 44, 103, 105 and 106. This sta is also served by Amtrak's Keystone Line.		Design 2015 - 2016		
Phase 1 will include a new inbound sta building and outbound shelters, high and low level p orms, canopies, passenger amen es, tunnel accessibility improvements, elevators and accessible stairs and ramps, improved ligh new signage, landscaping and site improvements including storm water management and constru on of found ns for a future parking garage.	Phase 1: \$29.88 M Phase 2: \$28.00 M	Phase 1: Constru on 2017 - 2019 Phase 2: Constru on Schedule	Montgomery	Delaware Montgomery
Phase 2 will provide for the construon of an accessible muolevel parking garage with approximately 500 spaces, landscaping, site improvements, bus berthing area inside the garage, and improved vehicle and pedestrian access to Lancaster Avenue. Phase 2 will be advanced upon iden of all funding partners.	Ç20.00 M	to be Developed		
Conshohocken Station on the Manayunk/Norristown Regional	Rail Line			
Moderniza of Conshohocken Sta including a new sta building and accessibility improvements. This n will receive new ADA compliant high-level p orms; new passenger shelters; accessible stairs, ramps, sidewalks and handrails/guardrails; new signage; new ligh ng; stormwater management systems and landscaping.	\$15.00 M	Design 2017 - 2018 Constru on 2019 - 2020	Montgomery	Montgomery Philadelphia
East Falls Station on the Manayunk/Norristown Regional Rail I	Line			
Moderniza of East Falls Sta including a new st n building and accessibility improvements. This n will receive new ADA compliant high-level p orms; new passenger shelters; elevators; accessible stairs, ramps, sidewalks and handrails/guardrails; new signage and ligh stormwater management systems and landscaping.	\$19.50 M	Design 2017 - 2018 Constru on 2019 - 2021	Philadelphia	Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Jenkintown-Wyncote Station on the Regional Rail Mainline				
Improvements to the exis sta building, and accessibility improvements. This sta will receive new ADA compliant high-level p orms; new passenger shelters; accessible stairs, ramps, sidewalks and handrails/guardrails; new signage; new ligh a new roof and stormwater management systems and landscaping.	Early Phase: \$1.97 M	Early Phase: Design Complete Constru on 2015	Montgomery	Bucks Montgomery
The Early Ac Phase of this project will include repair/improvements to sta ligh roof and canopies; rehabilita of plumbing; replacement of the sewage ejector system; and rehabilita of the pedestrian tunnel and sta p orms.	Main Phase: \$20.00 M	Main Phase: Design 2015 - 2016 Constru on 2019 - 2020		Philadelphia
Secane Station on the Media/Elwyn Regional Rail Line Complete renewal of sta n f es including new high-level p orms, pedestrian tunnel and a new sta building. The project will include accessible stairs, ramps, sidewalks and handrails/guardrails; new signage; new ligh ecurity cameras; and drainage improvements.	\$21.25 M	Design 2014 - 2015 Constru on 2015 - 2017	Delaware	Delaware Philadelphia
Suburban Station Passenger and Crew Amenities				
Constru on of new and renov n of exis public rest rooms at Suburban Sta to address the proposed fare lines to be installed as part of the SEPTA Key (New Payment Technology) In e. The renovated rest rooms will become the new "paid area" rest rooms. In add on, SEPTA's train crew quarters at Suburban Sta will be expanded to include new bathrooms, crew work areas, entrances, mechanical rooms, expanded sprinkler and e alarm systems for the exis ng and new spaces. This project will provide amen es to both rail passengers and the non-riding public. The expansion of the crew quarters to address high-demand use of this area is part of SEPTA's objec e to invest in its employees' health and wellness.	\$4.15 M	Design Complete Constru on 2015 - 2016	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia To Trenton, NJ To Newark, DE

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service
Willow Grove Station on the Warminster Regional Rail Line				
Moderniza of Willow Grove Sta including a new ADA compliant high-level p orm; new passenger shelters; accessible stairs, ramps, sidewalks and handrails/guardrails; new signage; new ligh ng; stormwater management systems and landscaping.	\$6.50 M	Design 2018 Constru on 2018 - 2019	Montgomery	Bucks Montgomery Philadelphia
Yardley Station on the West Trenton Regional Rail Line				
Moderniza of Yardley St n with accessibility improvements. This sta will receive a new ADA compliant high-level p orm; new passenger shelters; accessible stairs, ramps, sidewalks and handrails/guardrails; new signage; new ligh stormwater management systems and landscaping.	\$5.50 M	Design 2015 - 2016 Constru on 2017 - 2018	Bucks	Bucks Montgomery Philadelphia
Transit & Regional Rail Stations Program — Regional	Rail (FY 2	021 - 2027)		
Sta s programmed in FY 2021 - 2027 will be modernized and made accessible. A detailed scope of work will be developed for these sta s as they are designed:				
Devon Sta on the Paoli/Thorndale Regional Rail Line	\$20.00 M	2021 - 2027 Project	Chester	
Hatboro St n on the Warminster Regional Rail Line	\$6.50 M	2021 - 2027 Project	Montgomery	Bucks
Lawndale Sta on the Fox Chase Regional Rail Line	\$11.50 M	2021 - 2027 Project	Philadelphia	Chester
Marcus Hook Sta on the Wilmington/Newark Regional Rail Line	\$22.50 M	2021 - 2027 Project	Delaware	Delaware
Roslyn St n on the Warminster Regional Rail Line	\$6.50 M	2021 - 2027 Project	Montgomery	Montgomery
Wyndmoor Sta on the Chestnut Hill East Regional Rail Line	\$19.50 M	2021 - 2027 Project	Philadelphia	Philadelphia
Wynnewood St n on the Paoli/Thorndale Regional Rail Line	\$20.00 M	2021 - 2027 Project	Montgomery	
Transit & Regional Rail Stations Program — Rail Tran	nsit (FY 201	16 - 2020)		
5th Street Station on the Market-Frankford Line				
Rehabilita of sta facil es, including improvements to exis p orms; improvements to the sta building; accessible stairs, ramps, sidewalks and handrails/guardrails; new signage; new ligh security cameras; drainage improvements and waterproo g.	\$13.00 M	Design 2015 - 2016 Constru on 2016 - 2018	Philadelphia	Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service
40th Street Station on the Market-Frankford Line				
This sta will be improved and made fully ADA accessible. The scope of work will consist of improvements to p orms and stairways; instal of elevators; construc of head-houses for the elevators and sta entrances at street level; new ligh signage, security features and passenger amen es; and drainage and waterproo g improvements.	\$9.62 M	Design 2014 - 2015 Constru on 2015 - 2017	Philadelphia	Philadelphia
69th Street Terminal West				
This project provides for the rehabilita of the Bus Terminal and Trolley Loop to provide an ADA compliant sta with focus on energy e ency. The project includes the insta of two "green roofs" and a "green" wall. The central passenger w g area will be raised and light control shelves and s will be installed to increase natural light and reduce energy use. Improvements to bus and trolley opera s and pedestrian safety are included.	\$19.05 M	Design complete Constru on 2014 - 2015	Delaware	Chester Delaware Montgomery Philadelphia
Arrott Transportation Center (Margaret/Orthodox Station) on	the Market-F	rankford Line		
Primarily ADA accessibility improvements and rehabilita . Insta of a new elevator from street level to p orm level of the elevated sta and two elevators from the p orm level to the east overpass in the elevated sta ; replacement and raising of the elevated p orms; provision of ta le p orm edges; and new signage, curb ramps, handrails/guardrails, and ligh Add onally, there will be replacement of sidewalk paving at the elevated sta building; repair/replacement/recon ra of elements of selected stairs; repair/replacement of structural steel; replacement of roo g materials; repair/replacement of metal panel and e wall ishes; pain ; new amen es (benches, trash receptacles, etc.); new life safety, security and commun s systems (Smart Sta s elements); and new transformers and an emergency generator.	\$38.50 M	Design Complete Constru on 2015 - 2017	Philadelphia	Philadelphia

P	roject Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service
Ce	enter City Concourses				
	is project provides for mu -phase improvements to Center City ncourses.				
	age 1 includes: Ve al transporta elements including replacement of the two escalators at 15th St., replacement of an escalator and an elevator at 8th Street.				
•	Early on design & constru on to m gate water in & structural repairs at seven loc ns.				
•	Early improvements for South Broad concourse: Floors & Stairways.				
•	Emergency call box replacement for en concourse.				Develop
•	Master Plan for the en concourse.		All Phases:		Bucks Chester
•	Design for signage in the concourse.	\$54.50 M	Design 2014 - 2018 Constru on 2015 - 2021	Philadelphia	Delaware Montgomery Philadelphia
Sta	Phase 1: East Market Concourse (South) from 11th St. to 13th, the corridor under South Penn to the Oculus, and City Hall to the Municipal Services Building (MSB) Loop (Security & L g Only).				, madeipina
•	Phase 2: East Market Concourse (North) from 11th St. to 13th, 15th Street from Dilworth trolley access to 15th Street Escalators, and 8th Street to the Broad Ridge Spur Sta .				
•	Phase 3: City Hall to the Municipal Services Building (MSB) Loop termin g at east entrance to Suburban Sta , two corridors under City Hall, and 17th Street to 16th Street south of Suburban Sta adjacent to Commerce Street loading dock.				
•	Phase 4: South Broad Concourse.				

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Erie Station on the Broad Street Line				
At Erie Sta on the Broad Street Line, three (3) ADA compliant elevators will be installed. One elevator will move customers between the street level and the mezzanine level of the sta . The other two elevators will be located within the paid areas of the mezzanine level and will serve the north and south p orms. The project will also provide for the constru on of head houses for the elevator and sta entrances at street level; new signage, security features and passenger amen es; and drainage and waterproo g improvements.	\$9.00 M	Design 2016 - 2017 Constru on 2018 - 2019	Philadelphia	Philadelphia
Wyoming Avenue Station on the Broad Street Line				
Rehabilita of sta f es, including improvements to exis p orms; improvements to the sta building; accessible stairs, ramps, sidewalks and handrails/guardrails; new signage; new ligh security cameras; and drainage and waterproo g improvements.	\$5.00 M	Design 2016 Constru on 2017 - 2019	Philadelphia	Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Transit & Regional Rail Stations Program— Rail Tran	sit (FY 202	1 - 2027)		
Rehabilita of sta f es, including improvements to exis p orms and sta building; accessible stairs, ramps, sidewalks and handrails/guardrails; replacement or moderniza of elevators and escalators; new signage; new ligh security cameras; and drainage and waterproo g improvements.				
11th Street Sta on the Market-Frankford Line	\$9.50 M	2021 - 2027 Project	Philadelphia	Philadelphia
 33rd and 36th Street Sta s (City Transit Division Trolley Lines 10, 11, 13, 34, and 36). These two City Transit Division trolley sta ons will be improved and made fully ADA accessible. 	\$22.50 M	2021 - 2027 Project	Philadelphia	Philadelphia
Elevator/Escalator Improvements (system-wide)	\$4.75 M	2021 - 2027 Project	Delaware Montgomery Philadelphia	Delaware Montgomery Philadelphia
Fairmount Sta on the Broad Street Line	\$18.00 M	2021 - 2027 Project	Philadelphia	Philadelphia
Hun Park on the Broad Street Line	\$5.50 M	2021 - 2027 Project	Philadelphia	Philadelphia
 Snyder or Tasker-Morris St on (South po of Broad Street Line) 	\$7.00 M	2021 - 2027 Project	Philadelphia	Philadelphia
Susquehanna-Dauphin St	\$9.50 M	2021 - 2027 Project	Philadelphia	Philadelphia
Villanova Sta on the Norristown High Speed Line	\$6.00 M	2021 - 2027 Project	Delaware	Delaware

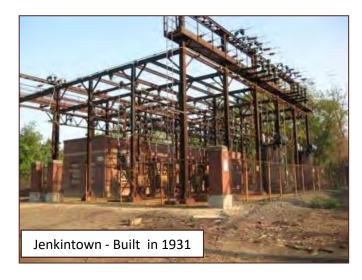
Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Transit & Regional Rail Stations Program— Bus & Tro	olley Loops (FY 2016 - 2020)		
Moderniza of the bus and trolley loops including accessibility mprovements and improvements to operator bathroom facil es, shelters, oading porms, ligh and landscaping. Lo sinclude:	\$11.50 M			
City Avenue Loop		Design 2016 Constru on 2016 - 2017	Philadelphia	Philadelphia
61st & Pine		Design 2015 Constru on 2015 - 2016	Philadelphia	Philadelphia
Ridge & Summit		Design 2017 Constru on 2017-2018	Philadelphia	Philadelphia
Bethlehem Pike		Design 2018 Constru on 2018 - 2019	Philadelphia	Philadelphia
Rising Sun & Olney		Design 2020 Constru on 2020 - 2021	Philadelphia	Philadelphia
Wycombe		Design 2020 Constru on 2020 - 2021	Delaware	Delaware
/illanova Station				
This project will modernize Villanova Sta on the Paoli/Thorndale Regional Rail Line. The scope of work includes high-level porms with canopies; a new pedestrian underpass with ramps and stairs; sta building exterior improvements; parking lot mod s; stormwater management; and new signage, ligh passenger amenis and landscaping. The improvements will make the sta fully ADA accessible. The project will be advanced in phases. Phase I ac is will improve state accessibility through the construit on of a new pedestrian tunnel with access ramps and stairs. This phase will also address parking lot mod s and associated stormwater management improvements. Phase II will address the high-level porms, canopies, and nibuilding restora.	\$30.60 M	Phase 1 Design Complete Constru on 2015 - 2017 Phase 2 Design Complete Constru on 2019 - 2021	Delaware	Delaware Montgomery

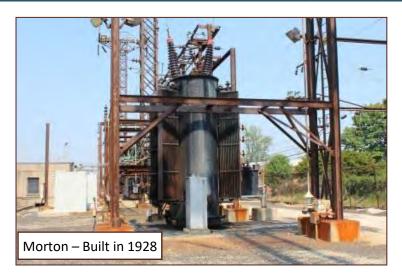
SEPTA's railroad and transit substa s were built in the 1920s and 1930s. In order to bring these substa s up to modern standards of reliability and performance, they must be overhauled or replaced. Work includes new transformers, trolley breakers, feeder breakers, substa switchgear and pro ve relaying. These projects will replace exis equipment with modern indoor switchgear and state-of-theart industry safety systems, communica s and relay pro on systems, and will provide add onal power and reliability.

Power subsystems must also be brought to a state of good repair. These include DC tra on power feeder cables; catenary wire on the Broad Street Line, Routes 101/102, regional rail and trackless trolley lines; substa power control upgrades; high speed trip devices; breakers; high voltage bushings; b ery control systems; sta c frequency converters at Wayne Jun on; power se onalizing at interlockings; and uninterrupted power supply (UPS) at SEPTA's Control Center and Radio Room.

SEPTA Traction Power and
Signal Power Substations Inventory
City 25
Suburban 8
Railroad 44
Total 77

		Budget		•	•		-	12-Year		
Substations and Power	Prior	Year	Program Years			FY 2021 -	Program	Beyond	Total	
Program Elements	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
				\$	Millions					
Substations	\$26.21	\$14.88	\$12.00	\$9.45	\$12.00	\$7.50	\$107.96	\$163.79	\$103.70	\$293.70
Power Improvements	\$10.29	\$2.63	\$3.00	\$4.05	\$8.00	\$7.50	\$26.99	\$52.17	\$25.93	\$88.38
TOTAL	\$36.50	\$17.50	\$15.00	\$13.50	\$20.00	\$15.00	\$134.95	\$215.95	\$129.63	\$382.08





Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Railroad Substations (FY 2016 - 2020)				
Ambler Substation				
Overhaul of Ambler Substa on on the Lansdale/Doylestown Regional Rail Line. Work includes new transformers, trolley breakers, feeder breakers, substa switchgear and pro ve relaying. This project will replace the major power components of the substa that are 80+ years old.	\$10.02 M	Design Complete Constru on 2014 - 2016	Montgomery	Bucks Montgomery
Bethayres Substation				
Overhaul of Bethayres Subst n on the West Trenton Regional Rail Line. Work includes new transformers, trolley breakers, feeder breakers, substa switchgear and pro ve relaying. This project will replace the major power components of the substa that are 80+ years old.	\$12.96 M	Design 2016 Constru on 2017 - 2018	Montgomery	Bucks Montgomery
Chestnut Hill East Substation				
Overhaul of Chestnut Hill East Substa on the Chestnut Hill East Regional Rail Line. Work includes new transformers, trolley breakers, feeder breakers, substa switchgear and pro ve relaying. This project will replace the major power components of the substa that are 80+ years old.	\$7.65 M	Design 2016 - 2017 Constru on 2018 - 2019	Philadelphia	Philadelphia
Hatboro Substation				
Overhaul of Hatboro Substa on on the Warminster Regional Rail Line. Work includes a new transformer, a new transformer breaker, and pro ve relaying. This project will replace the major power components of the substa that are 80+ years old.	\$7.65 M	Design 2016 - 2017 Constru on 2019 - 2021	Montgomery	Bucks Montgomery
Jenkintown Substation				
Constru on of a new Tra on Power Substa to replace the Jenkintown Substa of the former Reading Railroad System, which was built in 1931. The new substa will include new transformers, indoor switchgear, state-of-the-art industry standard safety systems, commun on systems, relay pro on systems and a new road for access to the site.	\$42.24 M	Design Complete Constru on 2014 - 2016	Montgomery	Bucks Montgomery Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Lansdale Substation				
Overhaul of Lansdale Substa on the Lansdale/Doylestown Regional Rail Line. Work includes new transformers, trolley breakers, feeder breakers, substa switchgear and pro ve relaying. This project will replace the major power components of the substa that are 80+ years old.	\$11.05 M	Design 2016 - 2017 Constru on 2017 - 2019	Montgomery	Bucks Montgomery
Lenni Substation				
Overhaul of Lenni Substa on the Media/Elwyn Regional Rail Line. Work includes new transformers, transformer breakers, trolley breakers, feeder switches, substa switchgear and pro ve relaying. This project will replace the major power components of the substa that was originally built in the 1920s.	\$10.55 M	Design Complete Constru on 2015 - 2016	Delaware	Delaware
Morton Substation				
Overhaul of Morton Substa n on the Media/Elwyn Regional Rail Line. Work includes new transformers, transformer breakers, trolley breakers, trolley and feeder switches, substa switchgear and pro ve relaying. This project will replace the major power components of the substa that was originally built in the 1920s.	\$10.55 M	Design Complete Constru on 2015 - 2017	Delaware	Delaware
Wayne Junction Static Frequency Converter (SFC) #4				
The major components of the four exis sta c frequency converters, located adjacent to Wayne Jun on Substa , are past their useful lives. SFCs are necessary to convert 230 kv 60 Hz power provided from PECO into a one-of-a-kind 24/12 kv 25 Hz auto transformer system. Total cost of these four rehabilita /replacement e orts is \$50 million. The constru on of a new No. 4 converter must be completed before the overhauls of the three others in order to keep service at 100% during all phases of constru on.	\$17.75 M	Design 2015 - 2016 Constru on 2016 - 2019	Philadelphia	Bucks Montgomery Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Wayne Junction Static Frequency Converter (SFC) #1				
The major components of the four sta frequency converters, located adjacent to Wayne Jun on Substa , are past their useful lives. SFCs are necessary to convert 230 kv 60 Hz power provided from PECO into a one-of-a-kind 24/12 kv 25 Hz auto transformer system. Total cost of these four e orts is \$50 million. The add on of the No. 4 converter must be completed before the overhauls of the three others in order to keep service at 100% during all phases of construc . A r SFC #4 is added, SFC #1 will be the st overhauled converter.	\$10.75 M	Design 2016 - 2017 Constru on 2018 - 2020	Philadelphia	Bucks Montgomery Philadelphia
Wood Substation				
Constru on of new Trac Power and Signal Power Substa on the West Trenton Regional Rail Line.	\$27.50 M	Design 2017 - 2018 Constru on 2019 - 2020	Bucks	Bucks Montgomery
Railroad Substations (FY 2021 - 2027)				
18th St./12th St./Portal Substations				
Overhaul of Center City Tunnel Substa s. Work includes new trolley breakers, trolley and feeder switches, substa switchgear and pro ve relaying. This project will replace the major power components of the 18th St. substa that was originally built in the 1920s and the 12th St. and Portal Substa s which were built in 1984.	\$7.00 M	2021 - 2027 Project	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Brill Substation Overhaul				
Work includes new transformers, trolley breakers, feeder breakers, substa switchgear and prote ve relaying. This project will replace the major power components of the substa that was originally built in 1985.	\$12.75 M	2021 - 2027 Project	Philadelphia	Philadelphia
Neshaminy Substation				
Overhaul of Neshaminy Substa on the West Trenton Regional Rail Line. Work includes new transformers, trolley breakers, feeder breakers, substa switchgear and pro ve relaying. Design will be done in the rst e years.	\$10.75 M	2021 - 2027 Project	Bucks	Bucks Montgomery Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Wayne Junction Static Frequency Converter (SFC) #2 & #3				
The major components of the four sta frequency converters, located adjacent to Wayne Jun on Substa , are past their useful lives. SFCs are necessary to convert 230 kv 60 Hz power provided from PECO into a one-of-a-kind 24/12 kv 25 Hz auto transformer system. r SFC #4 is replaced with a new converter, SFC #1 will be overhauled, followed by SFC #2 & #3.	\$21.50 M	2021 - 2027 Project	Philadelphia	Bucks Montgomery Philadelphia
Yardley Substation				
Overhaul of Yardley Substa n on the West Trenton Regional Rail Line. Work includes new transformers, trolley breakers, feeder breakers, substa switchgear and pro ve relaying.	\$10.75 M	2021 - 2027 Project	Bucks	Bucks Montgomery
Transit Substations (FY 2016 - 2020)				
Castor Substation				
Replacement and upgrade of exis breakers, re s, transformers, relays and switch gear at Castor Substa on Castor Avenue serving the Route 59 Trackless Trolley.	\$2.15 M	Design 2017 Constru on 2020 - 2021	Philadelphia	Philadelphia
Clifton Substation				
Routes 101/102 (Media-Sharon Hill Line) Substa at Cli — Replacement of three (3) exis single phase re er-transformers and re r with a single new 3-phase re -transformer and solid state diode re er with DC output of 650 Volts. Work includes new DC & AC switchgear, relay pro on, new b eries and b ery charging system.	\$3.40 M	Design Complete Constru on 2014 - 2015	Delaware	Delaware
Market Substation				
Replacement and upgrade of exis breakers, re s, transformers, relays and switch gear at Market Substa (City Transit).	\$9.30 M	Design 2016 - 2017 Constru on 2018 - 2019	Philadelphia	Philadelphia

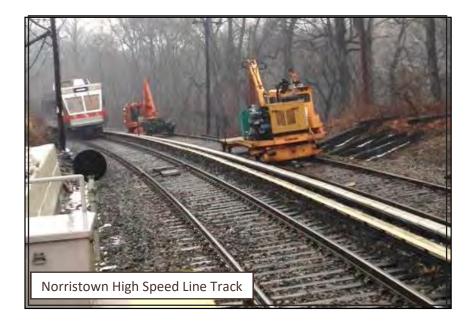
Project Descriptions		Schedule / Status (Calendar Year)	Location	Service Area
Transit Substation Projects (FY 2021 - 2027)				
The following Transit Substa on projects are programmed in Fiscal Years 2021 - 2027 for replacement. Work includes replacement and upgrade of exis breakers, re s, transformer, relays and switch gears. Design will be done during the rst e years.	\$29.10 M	2021 - 2027 Project	Philadelphia	Philadelphia
Broad Substa on Mt. Vernon Street serving the Broad Street Line				
 Ellen Substa at Front & Ellen Streets serving the Market-Frankford Line and a po of the Rt. 15 Trolley 				
 Louden Substa at Carlisle & Louden Streets serving the Broad Street Line and Rt. 75 Trackless Trolley 				
 Park Substa at Cumberland & Park Streets serving the Broad Street Line 				
 Ranstead Substa on Ranstead Street serving the Market-Frankford Line and a po of the Trolley Lines 				
Power Improvements (FY 2016 - 2020)				
30th Street to Arsenal Catenary Replacement				
Replacement and upgrade of overhead catenary system from 30th Street Sta to Arsenal Interlocking.	\$4.30 M	Design 2017 Constru on 2018 - 2019	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
30th Street West Catenary Replacement				
Replacement and upgrade of overhead catenary system including catenary structures from 30th Street Sta to 'K' Interlocking and the Powelton Yard Complex.	\$77.00 M	Design 2015 - 2017 Constru on 2018 - 2020	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Fox Chase Line Catenary Replacement				
Replacement and upgrade of the overhead catenary system for Fox Chase Regional Rail Line.	\$2.75 M	Design 2018 Constru on 2019 - 2020	Philadelphia	Philadelphia
Media/Elwyn Line Catenary Replacement				
Replacement of 17 miles of 80+ year old catenary between Walnut Interlocking, Philadelphia, and Lenni, Delaware County.	\$10.70 M	Design Complete Constru on 2014 - 2017	Delaware Philadelphia	Delaware Philadelphia
Wayne Junction Yard Catenary Replacement				
Replacement and upgrade of overhead catenary system for the Regional Rail Wayne Jun on Yard.	\$1.25 M	Design 2018 Constru on 2019 - 2020	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Power Improvements (FY 2021 - 2027)				
Airport Line Catenary Replacement				
Replacement and upgrade of the overhead catenary system for the Airport Regional Rail Line.	\$1.00 M	2021 - 2027 Project	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Chestnut Hill East Catenary Replacement				
Replacement and upgrade of the overhead catenary system for the Chestnut Hill East Regional Rail Line.	\$5.50 M	2021 - 2027 Project	Philadelphia	Philadelphia
Regional Rail Power Feeder Cable Improvements				
Provides for power feeder cable replacement on Regional Rail lines.	\$1.00 M	2021 - 2027 Project	Regional Rail System	Bucks Chester Delaware Montgomery Philadelphia

This program will provide for improvements to SEPTA's track and right-of-way. SEPTA operates rail service over 359 one-way route miles of track (including track owned by SEPTA, Amtrak, the City of Philadelphia, and CSX). Projects will return rail infrastructure to a state of good repair and help preserve rail transit service for current and future customers. SEPTA's Rebuilding for the Future capital program includes projects across the transit and Regional Rail systems that will renew street track and special work, replace con ous welded rail (CWR), and renew s and bers.

One-Way Route Miles in SEPTA's Rail	l Network	
Broad Street Line	11	
Market-Frankford Line	13	
Norristown High Speed Line	13	
Regional Rail	280	
Trolley	42	
TOTAL	359	
		/

		Budget						12-Year		
Track & Right-of-Way -	Prior	Year		Progra	m Years		FY 2021-	Program	Beyond	Total
Program Elements	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
					-\$Millions					
Track and Right-of-Way	\$11.40	\$15.00	\$10.00	\$4.00	\$5.00	\$5.00	\$51.00	\$90.00	\$51.95	\$153.35
TOTAL	\$11.40	\$15.00	\$10.00	\$4.00	\$5.00	\$5.00	\$51.00	\$90.00	\$51.95	\$153.35





Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Transit Projects (FY 2016 - 2020)				
Market-Frankford Line Bridge Street Yard Program				
Renewal of yard tracks for the Market-Frankford Line at the Bridge Street Yard.	\$3.00 M	Constru on 2018 - 2019	Philadelphia	Philadelphia
Norristown High Speed Line Tie Replacement and Continuous W	elded Rail			
Renewal of es and mbers for the Norristown High Speed Line (NHSL), including track surfacing, subgrade work, new third rail coverboard, and new special work. Project includes the use of special rail equipment including a handler, inserter/extractor, tamper, spiker and spike puller.	\$26.00 M	Design complete Constru on 2015 - 2021	Delaware Montgomery	Delaware Montgomery
Route 10, 11, 13 and 36 Track Improvements				
Renewal of street track on Trolley Route 11 along Woodland Avenue from 58th to 60th Street.		Route 11 Constru on 2018		
Renewal of Trolley Route 36 along Elmwood Avenue from 59th to 65th Street. Also includes special track work replacement at Elmwood Yard.		Route 36 Constru on 2018		
Renewal of street track on Trolley Route 10 along Lancaster Avenue from Girard Avenue to 52nd Street, and along Lansdowne Avenue from 52nd Street to 63rd Street.	\$11.67 M	Route 10 Constru on 2019 - 2020	Philadelphia	Philadelphia
Renewal of street track on Trolley Route 13 along Chester Avenue from 65th Street to "S" curves.		Route 13 Constru on 2021		
Route 15 Girard Avenue Street Track Renewal				
Renewal of street track on Trolley Route 15 at selected areas along Girard Avenue from Corinthian Avenue to Frankford Avenue.	\$10.20 M	Constru on 2015 - 2017	Philadelphia	Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Route 101/102 Yard Tracks				
Renewal of yard tracks for the Route 101/102 Trolley (Media/Sharon Hill Lines) at the 69th Street maintenance complex.	\$3.00 M	Constru on 2018 - 2019	Delaware	Delaware
Trolley Tunnel Track Improvements				
Replacement of con ous welded rail (CWR) in the City Transit Division Trolley Tunnel. The tunnel serves Trolley Routes 10, 11, 13, 34 and 36.	\$6.60 M	Constru on 2014 - 2017	Philadelphia	Philadelphia
Transit Projects (FY 2021 - 2027)				
Trolley Diversion Routes and Revenue/Non-Revenue Tracks Im	provements			
Renewal of street track and special track work on City Transit Division trolley diversion routes and non-revenue routes. Trolley diversion routes are used to transport customers to 40th Sta on the Market Frankford Line when the tunnel po of the trolley line for Routes 10, 11, 13, 34 and 36 is out of service for maintenance. Non-revenue tracks are used by trolleys heading to and from Elmwood and Callowhill Shops/Yards. The project also includes renewal of track on add onal segments of Trolley Routes 10, 11, 13, 34 and 36.	\$22.90 M	2021 - 2027 Project	Philadelphia	Philadelphia
Railroad Projects (FY 2016 - 2020)				
Powelton Yard Switch Heaters				
Insta of remote controlled electric switch heaters at Regional Rail Powelton Yard for improved accessed to the yard during winter storms.	\$4.25 M	Design Complete Constru on 2015 - 2016	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Regional Rail Interlocking Rehabilitation Program				
SEPTA has many interlockings, some of which are very complex and are at or near the end of their useful life cycle. The most complex track con ra in an interlocking is an arrangement of turnouts and crossings called a "Double Slip Switch." Five interlockings on the SEPTA Regional Rail System have double slip switches in them which are cal to oper ns.				
The st phase of the program will renew cal components of "Wayne Interlocking" on the Regional Rail system, which is located on the Mainline near Wayne Jun on, and is cal to opera s on the Chestnut Hill East Branch. This rehabilita will improve opera al reliability, reduce inservice failures and passenger delays, and extend the useful life of this cal interlocking un the en e facility is replaced as part of the major Interlocking Renewal Program.	Phase 1 \$1.66 M	Phase 1 Constru on 2015 - 2016	Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Future phases include rehabilita of 16th Street, Broad, Schuylkill and West Interlockings.	Future Phases \$7.20 M	Future Phases TBD		

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Regional Rail Open Deck Bridge Timber Renewal Program				
A three-year program which provides for the renewal of open deck bridge bers at various loca s throughout the regional rail system. There are a total of eight loca s in the program, including eleven tracks. Year one of this program includes the following four loca s on the Regional Rail System:				
 Chestnut Hill East Line Under Grade Bridge, UGB 5.18 				
Doylestown Line UGB 2.76				
Doylestown Line UGB 4.42				
Fox Chase Line UGB 6.68			Bucks	Bucks Chester
Years two and three will include:	\$3.31 M	Constru on 2015 - 2018	Montgomery	Delaware
Main Line UGB 4.50	,		Philadelphia	Montgomery
Ivy Ridge Line UGB 4.37				Philadelphia
Ivy Ridge Line UGB 5.29				
Norristown Line UGB 17.77				
The loca s in this program have reached or are near the end of their expected useful life cycle, which is 25 years. Upon comple of this program, all 31 open deck bridges on the regional rail system will have renewed bridge mbers in the last ten years.				
Railroad Projects (FY 2021 - 2027)				
Norristown Station 3rd Track				
Constru on of a third track at Norristown Sta to separate freight rail service from passenger rail service and facilitate the opportunity for increased frequency on SEPTA's Manayunk/Norristown Regional Rail Line. The Norristown Regional Rail Sta will be reconstructed and made fully ADA accessible as part of this project.	\$34.5 M	2021 - 2027 Project	Montgomery	Montgomery

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Railroad Yard Storage Expansion - Barracks The Rail Yard will be used to relocate railcars currently stored at the Trenton				
Transit Center. With nowhere else to store these railcars in the Trenton area, SEPTA now moves them more than 30 miles to the next closest remote storage loca—in advance of heavy rain events, such as Hurricane Sandy. The most cost-e e—ve means to m—gate the risk of damage is to restore Barracks Yard, which will serve a dual purpose of also increasing SEPTA's overall railcar storage capacity on the Trenton Line. Increased railcar storage capacity, in turn, will allow SEPTA to increase passenger capacity on the Trenton Line, which has experienced rapid ridership growth due to corridor conges—from the reconstru—on of Interstate 95 north of Center City Philadelphia. An early—n phase of this project is to verify the exis—odplain of the Assunpink Creek and develop op—s for constru—ng the yard.	\$34.5 M	Assessment - 2015 Design/Construc Schedule - TBD	New Jersey	Bucks Chester Delaware Montgomery Philadelphia Delaware (State) New Jersey

SEPTA's revenue vehicle et consists of 1,417 buses, 932 rail vehicles, 38 trackless trolleys and 455 paratransit vehicles. SEPTA also operates a tof non-revenue vehicles and equipment which are used for construon, vehicle and facility maintenance and service supervision. Revenue vehicles are overhauled on a planned schedule to maintain a quality state of good repair throughout a vehicle's service life. This program will replace vehicles and equipment that have exceeded their useful life, or, in the case of the trolley and Silverliner IV's, have far exceeded their design service life. This program will also provide for et expansion to meet present and projected increases in ridership demand. Regional Rail ridership has increased by 50% in the last 15 years. Overall ridership is at its highest levels in history. SEPTA will be reviewing ancial op s, such as the issuance of bonds, to assist in the advancement of the rail vehicle procurements included in this program. In add on, to accommodate new vehicles, SEPTA will be conduing cross disciplinary systems analyses for both trolleys and Regional Rail vehicles to determine poten costs associated with infrastructure needs and as well as opera al impacts.

Revenue Vehicle Inventory		
Regional Rail Locomotives	8	
Push/Pull Cars	45	
Silverliner IV's	231	
Silverliner V's	120	
MFSE Cars	218	
BSS Cars	125	
NHSL Cars	26	
City LRV Trolleys	112	
City PCC Trolleys	18	
Suburban Trolleys	29	
Buses 1	,390	
Trackless Trolleys	38	
Paratransit Vehicles	455	

		Budget						12-Year		
Vehicle Acquisitions and Overhaul -	Prior	Year		Program	ı Years		FY 2021-	Program	Beyond	Total
Program Elements	Funding	FY 16	FY 17	FY 18	FY 19	FY 20	2027	Total	FY 2027	Budget
					\$Millions	5				
Bus Purchase Program	\$237.65	\$60.00	\$60.00	\$60.00	\$65.00	\$70.00	\$499.00	\$814.00	\$0.00	\$1,051.65
Paratransit Vehicle Acquisition	\$0.00	\$5.47	\$7.00	\$8.00	\$7.00	\$7.00	\$49.00	\$83.47	\$0.00	\$83.47
Regional Rail Bi-Level Car & Locomotive Acq.	\$38.05	\$15.00	\$44.00	\$68.00	\$74.00	\$58.00	\$48.54	\$307.54	\$0.00	\$345.59
Regional Rail Silverliner IV Replacement	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$26.00	\$397.50	\$423.50	\$676.50	\$1,100.00
Trolley Acquisition	\$0.50	\$3.00	\$10.00	\$22.58	\$22.58	\$52.69	\$368.83	\$479.68	\$232.82	\$713.00
Utility Vehicle Renewal	\$0.00	\$6.00	\$6.00	\$6.00	\$6.00	\$6.00	\$42.00	\$72.00	\$0.00	\$72.00
Vehicle Overhaul Program	\$0.00	\$71.00	\$72.00	\$73.00	\$74.00	\$75.00	\$553.00	\$918.00	\$0.00	\$918.00
TOTAL	\$276.20	\$160.47	\$199.00	\$237.58	\$248.58	\$294.69	\$1,957.87	\$3,098.19	\$909.32	\$4,283.71







Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Bus Purchase Program (FY 2016 - 2027)				
SEPTA's Bus Fleet Management Plan provides for the acquis on of di erent size buses based upon needs and route characteris s. The current bus eet consists of a variety of buses ranging from 60-foot ar ulated and 40-foot buses for heavy use routes to 27-foot and 30-foot buses for suburban circulator and contracted service routes. SEPTA's bus t includes 472 hybrid buses. SEPTA's current 275 Bus Purchase contract includes 90 40-foot hybrid buses and 185 60-foot ar ulated hybrid buses. Upon delivery of all 275 buses, SEPTA will have a total of 747 hybrid buses in its t: over half of SEPTA's bus t. This quan of hybrid buses makes SEPTA one of the largest public transit operators of hybrid buses in the country. Beginning in FY 2016 the following bus replacement orders will commence: 525 40-foot hybrid buses to be delivered over a e year period (2016 - 2020) and 28 30-foot clean diesel buses to be delivered in Calendar Year 2016.	\$814.00 M (12 Year Total)	1) Current Contract:	Bucks Chester Delaware Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia
Paratransit Vehicle Purchase (FY 2016 - 2027)				
Quality control, service reliability and customer s sfac are key objec ves of the Authority. To achieve these obje ves, SEPTA rou acquires new revenue vehicles for its paratransit and shared-ride services to replace vehicles that have exceeded their useful life of e years. These vehicles are provided to private carriers, which operate the services and maintain the vehicles under contract to SEPTA. SEPTA ownership of these vehicles provides the following bene s: • The bility to rapidly exchange vehicles between carrier networks should the need arise. • Creates an economic incen ve for carriers to provide quality service. • More control over t compos on and standardiza of the eet. • More control over vehicle design features. In Fiscal Year 2016, up to 63 vehicles will be acquired, consis of 32 minibuses with wheelchair li , and 31 twelve-passenger minibuses without wheelchair s.	\$83.47 M	Annual delivery to replace vehicles beyond their useful life	Bucks Chester Delaware Montgomery Philadelphia	Bucks Chester Delaware Montgomery Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Regional Rail Multi-Level Car & Locomotive Acquisiti	on (FY 2016	5 - 2020)		
To accommodate increased ridership and service capacity needs on the Regional Rail System, this project will provide for the acquis on of mu -level push-pull coaches and thirteen electric locomo es. The mu -level coaches are add ons to SEPTA's push-pull railcar t. The new locomo ves will replace exis ones and provide expansion of service opportun es with the new mu -level cars. Railcars acquired will fully comply with Americans with Disabili s Act (ADA) requirements and federal and state regu s regarding safety features and systems. v es underway in support of this acquis on include studies to review yard storage and shop mod ns needed at Frazer Shop, overhead catenary and bridge clearance requirements; vehicle technical spec n development; and consultant work on railroad service.	\$154.40 M \$191.19 M	 Electric Locomo es Delivery 2018 Mu -Level Railcars Delivery 2019 - 2021 	Regional Rail System	Bucks Chester Delaware Montgomery Philadelphia Delaware (state) New Jersey
Regional Rail Silverliner IV Replacement (FY 2021 - 2	2027)			
This project provides for the purchase of new railcars to replace SEPTA's Silverliner IV railcar t. The Silverliner IV railcars were built between 1974 and 1976, and by the e of replacement, the cars will be well past their expected useful life. Vehicles acquired will fully comply with Americans with Disabili s Act (ADA) requirements and federal and state regu s regarding safety features and systems.	\$1,100.00 M	2021 - 2027 Project and beyond	Regional Rail System	Bucks Chester Delaware Montgomery Philadelphia Delaware (state) New Jersey

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Trolley Acquisition (FY 2016 - 2027)				
This project provides for the purchase of new light rail vehicles (trolleys) for City Transit Routes 10, 11, 13, 15, 34, 36 and Suburban Transit Routes 101 & 102. These rail transit lines currently operate with 141 light rail vehicles that were built in 1981, as well as 18 "Presiden Conference Comm ee" (PCC-II) cars originally manufactured in 1947 and rebuilt by Brookville Equipment Company in 2003-2004. Vehicles to be acquired will fully comply with Americans with Disabili s Act (ADA) requirements. SEPTA will be advancing a Trolley Infrastructure and System Moderniza program in support of the new trolleys. A systems integra Engineering Phase will in ally take place. Replacement of City and Suburban trolley ts will require a complex and closely interrelated series of infrastructure upgrades to accommodate modern technological advancements and mandated code requirements. Exis cond ons and new vehicle impacts will be evaluated as they relate to commun s and signals, power, track, maintenance facili s, ADA interface, fare payment interface and overall trans on strategy. A fully integrated approach will be crucial to the achievement of the moderniz n program's desired outcomes. Investments in infrastructure and system moderniza will u mately support the following outcomes: provide an accessible system; an improved customer experience; reduced vehicle acquis on costs; and reduced annual opera costs.	\$713.00 M	Delivery schedule to be developed	Delaware Philadelphia	Delaware Philadelphia

Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Utility Vehicle Renewal (FY 2016 - 2027)				
The U ity Fleet Renewal Program is a comprehensive e ort to upgrade and replace the Authority's u ity t and automo e service t. SEPTA u ity vehicles support transit and railroad opera s. In order to have adequate and reliable u ity vehicles, SEPTA has developed a program to periodically renew this t on a vehicle-by-vehicle basis, con ent upon the vehicle's age, cond on and usage within the Authority. The u ity eet is comprised of the following types of vehicles:				
 U ity vehicles and equipment for transit and paratransit supervisors, and SEPTA police o rs; 				Bucks
 U ity vehicles for inspec , maintenance and constru on of buildings, overhead power systems, commun s systems, signal systems and track. These vehicles include trucks, cranes, high rail vehicles and maintenance-of-way equipment; 	\$72.00 M	Annual delivery to replace vehicles beyond their useful life	System-Wide	Chester Delaware Montgomery Philadelphia
 Transporter vehicles used in garages and shops, including revenue trucks, fork s for material handling, pick-up trucks for material movement between depots and shops, and for snow removal; 				
 Service vehicles used for vehicle maintenance including wreckers, tow tractors, man s and pick-up trucks; 				
 Miscellaneous equipment such as generators, compressors, trailers, or scrubbers and welding units. 				

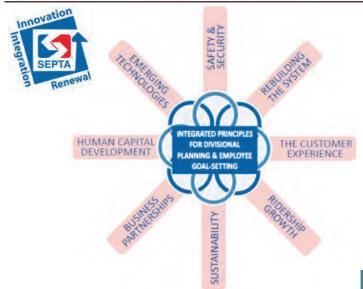
Project Descriptions	Budget	Schedule / Status (Calendar Year)	Location	Service Area
Vehicle Overhaul Program (FY 2016 - 2027)				
SEPTA's Vehicle Overhaul Program (VOH) provides for the system replacement or upgrade of systems on SEPTA's rolling stock. Vehicles are scheduled for overhauls during their service lives based on vehicle type and age. A vehicle must receive periodic overhauls if it is to op ize performance throughout its useful service life. Prudent t management requires a program of preven ve maintenance for op al eet reliability, service quality, e ent performance, and passenger comfort. Advanced scheduling of vehicle preven ve maintenance allows SEPTA to purchase material and produce rebuilt components in an e ent and e e ve manner. In add on to vehicle overhauls, this program also provides for vehicle campaigns. Campaigns address both cri cal items and vehicle equipment upgrades and mod s, which are accomplished on a et-wide basis. The Vehicle Overhaul Program will allow SEPTA to con e its overhaul of rolling stock, thus ensuring con ed safe and reliable service. Highlights of the Fiscal Year 2016 program include the overhaul of 40-foot low or New Flyer diesel buses, a prototype 40-foot hybrid (diesel-electric) bus, Broad Street B-IV cars, City and Suburban trolleys, Regional Rail Silverliner IV cars, Market Frankford M-4 cars, Norristown High Speed Line N-5 cars, and support vehicles and equipment. Highlights of campaigns for Fiscal Year 2016 include N-5 car seat replacement, M-4 ligh improvements and or replacement, and B-IV truck and propulsion system improvements. Regional Rail Silverliner IV campaigns include the A/C condenser unit overhaul, rota equipment change out, trap door and double-ended blower overhauls, rebuilding of pantographs, and main transformer conversion.	\$918.00 M	Annual program to overhaul a po of each vehicle eet	System-Wide	Bucks Chester Delaware Montgomery Philadelphia Delaware (State) New Jersey

FY 2016 CAPITAL BUDGET AND FY 2016-2027 CAPITAL PROGRAM

Appendices



APPENDIX A: STRATEGIC BUSINESS PLAN AND THE CAPITAL PROGRAM



VISION: To be the region's preferred choice for transporta n.

SEPTA's Strategic Business Plan for Fiscal Years 2015 through 2019 is the organiza 's framework for decision-making. The plan outlines a vision, mission, core values, and strategic objec es as guiding principles for all programs and in es. It also establishes a series of key performance indicators to measure progress towards goals over me. For more inform n on SEPTA's Strategic Business Plan, please visit: www.septa.org/strategic-plan.

The Capital Program is a key tool for implemen SEPTA's Strategic Business Plan. The matrix below illustrates the re ship between SEPTA's FY 2015-2019 Strategic Business Plan objec ves and the FY 2016-2027 Capital Program.

VA .	Strategic Business Plan Objectives (FY2015-2019)								
Capital Programs	Safety & Security	Rebuilding the System	Emerging Technology	The Customer Experience	Ridership Growth	Sustain- ability	Human Capital Development	Business Partnerships	
Bridge Program	✓	✓				✓			
Communications, Signal Systems & Technology Improvements	✓	✓	✓	✓	✓		✓	✓	
Debt Service and Capital Leases		✓		✓	✓	✓			
Infrastructure Safety Renewal Program	✓	✓	✓	✓		✓	✓		
Maintenance / Transportation Shops and Offices	✓	✓		✓		✓	✓		
New Payment Technologies - SEPTA Key	✓	✓	✓	✓	✓	✓	✓		
Safety & Security Improvements	✓	✓	✓					✓	
Service Restorations		✓			✓	✓			
Stations, Loops and Parking Improvements	✓	✓		✓	✓	✓		✓	
Substations and Power Improvements	✓	✓	✓			✓			
Track and Right-of-Way Improvements	✓	✓			✓	✓			
Vehicle Acquisitions and Overhauls	✓	✓	✓	✓	✓	✓			

SEPTA's current Strategic Business Plan has iden the need for SEPTA to adopt a Long-Range Plan for Capacity Enhancements and Service Expansion as one of the Business In ves under the Infrastructure and State of Good Repair Category. A SEPTA Long Range Plan would provide a connected framework for decision making within SEPTA, as well as a crucial link between the planning e orts of key regional stakeholders and SEPTA's long term vision and goals.

The descrip s below provide more detailed inform n on various transit expansion, community, and regional planning projects. These projects are included to provide informa on long-term capital programming and strategic planning conducted by the Commonwealth of Pennsylvania, the Delaware Valley Regional Planning Commission (DVRPC), SEPTA, the City of Philadelphia, Bucks, Chester, Delaware and Montgomery Coun s, and other transporta agencies and associa s in the region.

Project Descriptions

Expansion Project Planning

King of Prussia Rail - An Extension of the Norristown High Speed Line (NHSL)

- Lead Agency: Southeastern Pennsylvania Transportation Authority (SEPTA)

An Altern ves Analysis and Environmental Impact Statement (AA/DEIS) planning study for the extension of the Norristown High Speed Line to the King of Prussia area cal given the changes in the King of Prussia area over the past decade in land use, popu began in 2012. This planning e ort is growth, the expansion of the King of Prussia Mall (the largest Mall complex in the United States), the form n of a Business Improvement District (BID), and the growing number of SEPTA bus passengers who currently endure unpredictable and longer than desired bus travel mes to the area as a result of traffic conges on area roadways. The goal of the study is to determine a locally preferred altern ve for an extension of the exis g Norristown High Speed line to the King of Prussia area, providing access to areas such as the King of Prussia Mall, the business park north of the mall, the Valley Forge N nal Historical Park and the Valley Forge Casino Resort. The study will u ize a ered screening process to narrow down the altern ves from an in all long list of 30 poten all altern es to a single recommended locally preferred altern ve. The study will include development of capital and opera of service opera ns, appropriate environmental review steps as required by the N nal Environmental Policy Act (NEPA), 3D modeling of the locally preferred altern ve, and sign ant outreach to the public as well as area stakeholders. Ridership modeling for each of the alterna ves will also be developed by the Delaware Valley Regional Planning Commission (DVRPC). Comple n of the Altern es Analysis and Environmental Impact Statement is an ipated by the end of 2015.

Broad Street Line Extension - Pattison Avenue to the Philadelphia Navy Yard

- Lead Agency: Pennsylvania Department of Transportation (PennDOT) Bureau of Public Transportation and Philadelphia Industrial Development Corporation (PIDC)

PIDC received a DVRPC FY 2007 Transporta and Community Development In a e (TCDI) grant to evaluate transit needs and alterna es for enhancing public transporta conne ons to Navy Yard redevelopment sites in South Philadelphia, including the extension of the Broad Street Line from its current terminus at AT&T Sta . A al feasibility study report was issued in September 2008. In 2014, PennDOT's Bureau of Public Transporta provided funding to update that feasibility study with a Phase 2 Feasibility study which will update the original dings based upon the new 2013 Navy Yard Master Plan and examine the poten to move the extension forward within the FTA New Starts guidance that is associated with MAP-21. The expected dura on of the study is approximately 2 years.

Project Descriptions

Quakertown Rail Restoration - Alternatives Analysis

- Lead Agencies: Delaware Valley Regional Planning Commission (DVRPC) / Montgomery and Bucks County Planning Commissions

A 2011 Altern ves Analysis (AA) study inves ated the feasibility of restoring passenger rail service linking Bucks County and North Penn commun es with Center City Philadelphia, via Lansdale. The AA examined transit op ons that would m gate highway conges in the Route 309 corridor. This e ort was managed by DVRPC, and coordinated with Bucks and Montgomery County Planning Commissions, the TMA of Bucks County and SEPTA. The preliminary dings of that study re ted an approach to restoring service in the Route 309 corridor by recommending electri n of the SEPTA-owned branch line to a terminus point at Pennridge in West Rockhill Township, with some degree of phasing. This project was placed on hold in 2012 pending the FTA aliza of new evalu n criteria for federal transit projects under MAP-21. DVRPC included a project within its FY 2015 Work Program to update ridership projec s for rail restora within the corridor, this e extending to Perkasie. Results of the study are expected in 2015. These results will determine the future dire on of project.

Long Range Planning

30th Street Station District Plan

- Lead agencies and project partners: Amtrak, Brandywine Realty Trust, Drexel University, PennDOT, and SEPTA

The Philadelphia 30th Street Sta District Plan will create a single, integrated vision for both the sta and its surrounding area. The al vision will contain opportun es for community development, economic growth and improved transporta conne ons. The master planning process involves three main elements of analysis: transporta , the n and associated facil es, and commercial opportun es. Each of these elements will be integrated into a nal comprehensive plan for the District.

This process will be guided by the project partners, including SEPTA, with input from the community at public mee held throughout the two-year eframe. The all District Plan will be completed in spring 2016.

Regional Long Range Plan - Connections 2040 Plan for Greater Philadelphia

- Lead agency: Delaware Valley Regional Planning Commission (DVRPC)

DVRPC is required to update the regional Long Range Plan every four years. The plan addresses transporta , land use, environmental and economic compe veness and includes a scally constrained list of transporta projects. The plan was adopted by the DVRPC Board in July 2013 and published in November 2013. With the passage of Act 89, a supplemental amendment to the plan was approved to include projects that previously had been deferred due to cal constraints. That supplement was released in 2014.

Project Descriptions

City of Philadelphia: "Philadelphia2035" Plan

- Lead agency: Philadelphia City Planning Commission

Philadelphia2035: The Citywide Vision was the t phase of a large scale comprehensive planning e ort for the City of Philadelphia completed in 2012. Recommend ns include new and extended transit lines to serve the Roosevelt Boulevard Corridor, access to the Navy Yard, conne ons to the Central Delaware Waterfront and the Centennial District; and the development of the Market East Sta and 30th Street Sta areas. The Planning Commission is currently in the second phase of Philadelphia2035, which provides for the establishment of 18 individual District Plans to develop spe recommend ns for each area of the City. Other products resu ng from Philadelphia2035: The Citywide Vision include The Complete Streets Manual (the balanced use of streets between pedestrians, bicyclists, transit, and vehicles) and The Philadelphia Master Trails Plan.

The following District Plans are underway or completed:

- Underway: South and Riverwards
- Completed: Lower South, West Park, Lower Northeast, Central, University Southwest, Lower North, Central Northeast and Lower Northwest

SEPTA par ipates in the district planning process by providing review, analysis and input into the District Plans to ensure consistency and in of transporta -related plannin orts by all stakeholders.

Northeast Corridor Commission Actions

- Lead agency: Northeast Corridor Infrastructure and Operations Advisory Commission

Under the Passenger Rail Investment and Improvement Act (PRIIA) of 2008, the Northeast Corridor Infrastructure and Opera s Advisory Commission (NECC) represens states, Amtrak, and the Federal Government was established to guide various planning e orts throughout the Corridor. The NECC implements plans and policies to govern the NEC most notably with its recently adopted Cost Allo n Policy and Five-Year Capital Plan. Both SEPTA and PennDOT have roles in these e orts. The implementa of bilateral access agreements between commuter rail carriers and Amtrak which implement cost allo for opera ng and capital costs while cre g a stronger decision-

NEC Future: A Rail Investment Plan for the Northeast Corridor

- Lead agency: Federal Railroad Administration

This study began in 2012 and includes several components: the development of a service plan for the NEC, with considera of both current and future markets for improved rail service and capacity; a corridor-level environmental impact statement (Tier 1) that considers the impacts to the human and natural environment; and an investment plan for passenger rail on the NEC that can be approached incrementally. Primary among the plan goals is to consider high-speed rail alignments and improve connec ity among rail services and between rail and other modes. SEPTA is par ip g in the process and providing informa to the project team about capital improvements that would enhance high-speed commuter rail opera s on the NEC. The FRA is scheduled to complete this comprehensive environmental impact assessment in the fall of 2015.

Project Descriptions

Other Planning Activities

Roosevelt Boulevard

- Lead agency: Pennsylvania Department of Transportation, City of Philadelphia (Mayor's Office of Transportation and Utilities and Philadelphia Streets Department), SEPTA, DVRPC

The Delaware Valley Regional Planning Commission (DVRPC) recently completed the Altern es Development for the Roosevelt Boulevard Transit Enhancements study. The purpose of this project was to take a fresh look at transit needs and develop strategies that could be achieved at grade within the exis cross se on, at compar ely lower cost and in a shorter eframe than the xed guideway service that has historically been the focus of planning e orts. The resu ng recommend n was for a mod d form or a new bus rapid transit (BRT) service along the Boulevard.

The dedicated transit right-of-way/guideway service along the Roosevelt Boulevard remains a long-term amb on. To this end, the City of Philadelphia was awarded a \$2.5 million TIGER (Transporta Investment Genera Economic Recovery) grant in 2014 to develop long-range plans for the Roosevelt Boulevard. Work on this study will begin in 2015, with PennDOT and SEPTA being core stakeholders.

Wissahickon Transportation Center Planning

- Lead agency: SEPTA, partners include Philadelphia City Planning Commission, Philadelphia Parks & Recreation, Mayor's Office of Transportation and Utilities, Philadelphia Streets Department

Wissahickon Transporta Center (WTC) is one of SEPTA's busiest bus transfer centers, serving an average of 5,780 people, 780 trips, and 2,905 passenger boards every weekday across eleven bus routes. It provides access to des s such as King of Prussia, Plymouth Mee City Avenue, and Northeast Philadelphia, as well as Center City.

Bus opera s at WTC have outgrown the exis physical facili s, and expansion plans have been explored collabora ely between SEPTA and other cted agencies as a part of the Lower Northwest District Plan, in the Philadelphia2035 Plan. WTC expansion will s cantly improve the customer experience, allow for new service and extension of exis bus service, reduce mul -modal conges , enhance safety, and allow for the comple of a major po on of the Schuylkill River Trail.

DVRPC Work Program Studies

- Lead agencies: Delaware Valley Regional Planning Commission (DVRPC), member governments, transit organizations

This document outlines all of the federally funded planning projects slated for the nine-county region from July 1, 2014 to June 30, 2015. The lis includes DVRPC projects, as well as projects planned by member governments and transit organiza s. The Work Program is developed annually by the DVRPC Board with its planning partners to re the region's short-range planning needs. The Fiscal Year 2016 DVRPC Work Program projects that SEPTA will directly contribute to include:

- Delaware Avenue Waterfront Trolley Feasibility Study
- Paoli-Thorndale Regional Rail Extension Ridership Study
- Radnor Sta Conne vity Study
- Ivy Ridge St n: Ivy Ridge Intermodal Study

End of Budget Document