



# Unified Planning Work Program

of the

Lehigh Valley Transportation Study  
in Collaboration and Partnership with  
Lehigh Valley Planning Commission (LVPC)  
and

Lehigh and Northampton Transportation Authority (LANTA)

**July 1, 2020 through June 30, 2022**

**LVTS Coordinating Committee: December 4, 2019**  
**LVPC Executive Committee: November 14, 2019**

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## PREFACE

On October 28, 1993, the U.S. Department of Transportation, under the joint sponsorship of the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA), released updated regulations covering the urban transportation planning and programming process. These regulations specified that:

- (a) In Transportation Management Areas (TMAs), the TMA(s), in cooperation with the State and operators of publicly-owned transit, shall develop unified planning work programs (UPWPs) that meet the requirements of 23 CFR Part 420, Subpart A and:
  - (1) Discuss the planning priorities facing the metropolitan planning area and describe all metropolitan transportation and transportation related air quality planning activities (including the corridor and subarea studies discussed in 450.318 of this part) anticipated within the area during the next one or two-year period, regardless of funding sources or the agencies conducting the activities. The description should indicate who will perform the work, the schedule for completing it and the products that will be produced.
  - (2) Document planning activities to be performed with funds provided under Title 23, U.S.C., and the Federal Transit Act (Federal Register, Vol. 58, No. 207, p. 58040).

The Fixing America's Surface Transportation (FAST) Act (SS 1201; 23 U.S.C. 134) signed on December 4, 2015, continues the Metropolitan Planning Program. The Program establishes a cooperative, continuous, and comprehensive framework for making transportation investment decisions in metropolitan areas. Program oversight is a joint Federal Highway Administration/Federal Transit Administration responsibility.

Within Lehigh and Northampton counties in Pennsylvania, the transportation planning process is conducted through the Lehigh Valley Transportation Study (LVTS). The purpose of this document is to describe the transportation planning and programming activities for the period July 1, 2020 through June 30, 2022 in Lehigh and Northampton counties and to comply with the Federal Planning regulations identified above. At the request of PennDOT, this document will cover a two-year period. The work order that results from this work program will cover the same two-year period.

## **LEHIGH VALLEY TRANSPORTATION STUDY (LVTS) TRANSPORTATION MANAGEMENT AREA (TMA)**

### **Introduction**

- A. The Unified Planning Work Program (UPWP) describes the transportation-related work activities that the Lehigh Valley Planning Commission (LVPC) and Lehigh and Northampton Transportation Authority (LANATA) (with the aid of a planning consultant, if necessary) will perform in the 2020 and 2021 state fiscal years for the two-county area.
- B. The Lehigh Valley Transportation Study (LVTS) is designated as the transportation management area (TMA) for the Lehigh Valley.
- C. As the federal designated metropolitan planning organization for Lehigh and Northampton Counties, LVTS must respond to the planning requirements of two federal laws: the FAST Act and the Clean Air Act Amendments of 1990 (CAAA). The FAST Act, adopted in December 2015, continues many of the regional transportation planning programs advanced in MAP-21. Under this legislation, the MPO is a partner in the planning for the use of all federal transportation funds allocated within their region. The FAST Act also requires MPO to produce and oversee a Transportation Improvement Program (TIP), the regions short-range capital investment plan, which must be consistent with and serve to implement the region's Long-Range Plan. The TIP prioritizes the Lehigh Valley's transportation-related projects within the constraints of federal funding that Pennsylvania can reasonably expect to receive within four years.

The Metropolitan Planning Regulations promulgated from the FAST Act identify ten planning factors that must be considered in the metropolitan planning process. The ten planning factors listed below are integrated within the tasks of the Program Areas and Projects detailed throughout this work program.

- Support the economic vitality of the metropolitan area, especially by enabling global competitiveness, productivity, and efficiency.
- Increase the safety of the transportation system for motorized and non-motorized users.
- Increase the security of the transportation system for motorized and non-motorized users.
- Increase accessibility and mobility of people and freight.
- Protect and enhance the environment, promote energy conservation, improve the quality of life, and promote consistency between transportation improvements and State and local planned growth and economic development patterns.
- Enhance the integration and connectivity of the transportation system, across and between modes, for people and freight.
- Promote efficient system management and operation.
- Emphasize the preservation of the existing transportation system.
- Improve the resiliency and reliability of the transportation system and reduce or mitigate stormwater impacts of surface transportation.
- Enhance travel and tourism.

- D. The vision for LVTS's UPWP 2020-2022 is to accomplish high quality transportation planning activities that are in accord with federal and state regulations by providing balanced, accurate, timely and reliable information, data, analysis planning and guidance on relevant aspects of the Lehigh Valley Community and society.

**Committees and Agency Responsibilities**

- A. The LVTS is comprised of main two committees - the Technical Committee and Coordinating Committee. The Technical Committee is an advisory body to the Coordinating Committee, reviewing plans, programs, and various other items brought before them for review and recommendation to the Coordinating Committee. The Coordinating Committee is the policy body which formally adopts items reviewed by the Technical Committee. The LVTS also has two advisory committees on specific topic areas of Freight and Multimodal transportation.

Technical Committee Voting Members and number of votes in parenthesis:

City of Allentown	(1)
City of Bethlehem	(1)
City of Easton	(1)
Lehigh and Northampton Transportation Authority (LANTA)	(1)
Lehigh-Northampton Airport Authority (LNAA)	(1)
Lehigh Valley Planning Commission (LVPC)	(3)
Pennsylvania Department of Transportation – Central	(1)
Pennsylvania Department of Transportation – District 5	(1)

Coordinating Committee Voting Members and number of votes in parenthesis:

Lehigh County	(3)
Northampton County	(3)
City of Allentown	(2)
City of Bethlehem	(2)
City of Easton	(2)
Lehigh and Northampton Transportation Authority (LANTA)	(1)
Lehigh-Northampton Airport Authority (LNAA)	(1)
Lehigh Valley Planning Commission (LVPC)	(1)
Pennsylvania Department of Transportation – Central	(1)
Pennsylvania Department of Transportation– District 5	(1)

The Freight Advisory Committee is advisory to the LVTS on goods movement issues, studies and projects, and the development of a functional and efficient freight system. The Committee will consider the movement of freight to and from manufacturing sites, cities/downtown areas, intermodal facilities, warehouses, and utilities, as well as the region's freight transportation network (i.e., highways, railroads, ports, airports, and pipelines). Additionally, the Committee is a platform for information sharing and building of the region's knowledge base on goods movement issues and needs. The Freight Advisory Committee consists of all members of LVTS, a truck driver, a law enforcement official, CDL training organizations, a freight insurance/risk management provider, a freight shipper/receiver, Class I and short line railroads, trucking firms and associations, a third party logistics/supply company, Lehigh Valley Industrial Parks, Federal Highway Administration, Pennsylvania Motor Truck Association, Lehigh Valley Economic Development Corporation, Greater Lehigh Chamber of Commerce, a private and regional bus

operator, a developer. Neighboring regions and associated entities like the Pennsylvania Turnpike Commission are invited. All meetings are open to the public

The Multimodal Working Group is advisory to the LVTS on the development of a functional and efficient bicycle, pedestrian and transit system and the intersection of these modes with other vehicular traffic. The working group facilitates discussions and provides input on policies, plans and projects to support the local, regional and state bicycle, pedestrian and transit system along with safety, access and mobility. The working group participates as an advisory body to the MPO in multimodal strategic action planning efforts. The working group is composed of all LVTS members along with members that represent the cycling community, pedestrian community, transit community, businesses, organizations and public agencies that depend on bicycle, pedestrian and transit and also residents with an interest in improving any of these communities. All meetings are open to the public.

- B. The LVPC serves as technical staff for LVTS and is responsible, in cooperation with PennDOT and LANTA, for providing information, analyses, and plan and program recommendations to the committees for their action. The staff of LVPC coordinates the required planning tasks to ensure that LVTS is meeting the federal transportation requirements and receiving federal and state funds to make necessary improvements to the transportation infrastructure. The staff assess data, congestion, feasibility, land use, transportation system performance and operations, safety and security, travel demand, freight and environmental linkages to develop plans for the reliable movement of people and goods. The planning efforts consult and coordinate with the Lehigh Valley Planning Commission, local, county, state and federal governments, transit operators, adjacent regions, transportation advocates, trail partners, the mobility-impaired, environmental justice communities and the public.
- C. The role of LVTS and other supporting agencies is to promote transportation policies, programs, and projects consistent with locally adopted regional comprehensive plan, transportation plan and transportation improvement program that are in accord with federal and state regulations. Specific studies and plans on goods movement, safety, transportation-land use connections, multi-modalism, congestion management, roadway functional classifications, highway performance monitoring, etc. are core roles, and work to enhance the long-range transportation plan, transportation improvement program and support optimal decision and policy-making by the LVTS. All LVTS Meetings are advertised and open to the public.

## Priorities for 2020-2022

The top priorities for the LVTS during the 2020-2022 UPWP will be:

1. Monitoring, education and implementation of the newly merged bi-county comprehensive general plan and long-range transportation plan, titled *FutureLV: The Regional Plan*.
2. Coordinate, facilitate and participate in *FutureLV: The Regional Plan* implementation efforts, like the development of multi-municipal plans, focused efforts on water management, climate change and infrastructure resiliency, support of sustainable infrastructure funding programs and, future forces planning such as electric and autonomous infrastructure studies.
3. Create a new organizational strategic plan to support the prioritization, facilitation and implementation of transportation plans and initiatives including, *FutureLV: The Regional Plan*.
4. Monitoring, education, implementation and possible revision of newly adopted performance measures.
5. Implementation of the PennDOT Connects process with PennDOT and support of educational and capacity-building efforts, such as the Local Technical Assistance Program and Lehigh Valley Government Academy.
6. Implementation of the 2021-2024 Transportation Improvement Program (TIP) and begin preparations for the 2023-2026 TIP Update, including annual listing of obligated projects.
7. Participation in and response to the joint Federal Highway Administration and Federal Transit Administration Certification Review. The final report is expected in July 2020 with coordination and implementation of recommendations beginning immediately thereafter.
8. Begin update of *FutureLV: The Regional Plan* in 2022 for adoption in 2023.
9. Coordination with neighboring MPOs to address “Mega-Regional” needs through the Metropolitan Planning Area (MAP) Forum, among other venues and activities.
10. Educate, organize partner entities and begin implementation of the *Walk/RollLV: Active Transportation Plan*, through forums like the LVTS Multi-modal Working Group and The Link Trail Partnership.
11. Update the *Traffic Safety Plan and Congestion Management Process* dovetailing the adoption of *Walk/RollLV: Active Transportation Plan* and *FutureLV: The Regional Plan*.
12. Support the implementation *Moving LANTA Forward Plan* and the *Enhanced Bus/Bus Rapid Transit Study* by the Lehigh and Northampton Transportation Authority.
13. Continue the focus, dialogue, writing and leadership on freight issues as the Lehigh Valley has the second highest rate of freight growth in the World, according to CBRE. Strengthen these efforts through the Freight Advisory Committee, implementation of the *Airport Area Freight Study*, and thorough municipal education and outreach on the transportation-land use connection.
14. Seek support and funds to update *MOVELV: Regional Freight Plan*, adopted in 2015, to innovate and keep the planning current on goods movement, community impacts, safety and overall mobility.
15. Update the *LVTS Public Participation Plan* to reflect the enhanced outreach and engagement already occurring and increase inclusion of environmental justice populations to improve overall equity.
16. Continue to monitor transportation system changes through the Highway Performance Monitoring and Segment Inventory System, National Highway System connector modifications, functional classification system and publishing transportation trends information. Continue to implement DataLV, online and interactive data sharing and economic-transportation modeling system to better communicate information and build a more collaborative approach to transportation planning and investment.

17. Build new partnerships, with agencies like the Workforce Investment Board, to enhance the knowledge base and discussion-making around mobility, the economy and the environment.

## Milestones

Generally the LVTS follows the following deliverable milestones in the work program:

Product	Update Cycle	Current Adoption/Completion	Next Adoption/Completion
Unified Planning Work Program (UPWP)	2 Years	April 4, 2018	December 4, 2019
Long-Range Transportation Plan (LRTP)	4 Years	October 13, 2015	October 2, 2019
Transportation Improvement Program	2 Years	June 6, 2018	June 30, 2020
Public Participation Plan	As Needed	October 4, 2017	June 30, 2022
Limited English Proficiency Plan	As Needed	December 19, 2016	To Be Determined
Title VI Policy and Procedures	As Needed	August 17, 2011	To Be Determined
Traffic Safety Plan	As Needed	December 19, 2016	December 30, 2021
Pedestrian, Bicycle, Last Feet to Transit Plan	As Needed	In Draft Form	To Be Determined
Freight Plan	As Needed	October 13, 2015	To Be Determined
Local Coordinated Transit Plan	As Needed	June 6, 2018	To Be Determined
Annual List of Obligated Projects	1 Year	April 3, 2019	December 30, 2019
Local Technical Assistance Program (LTAP) Annual Report	1 Year	December 2018	December 2019
Highway Performance Monitoring System (HPMS)	1 Year	December 2018	December 2019
Federal Certification Review	4 Years	July 7, 2016	Summer 2020

## Work Program Development

LVPC staff initiated the development process of the 2020-2022 UPWP in 2018 and continued through 2019, by holding workshops and stakeholder meetings with municipal governments, state DOT's, LANTA, Chamber of Commerce, business leaders, trail and multi-modal advocacy groups and stakeholders in the community. These meetings held two purposes: one – to gather input for *FutureLV: The Regional Plan*, which is the regions comprehensive plan under the Pennsylvania Municipal Planning Code and the Long Range Transportation Plan under the FAST Act and CAAA; and two – to identify key initiatives for future work program development.

LVPC staff also contacted PennDOT Central Office and LANTA on several occasions regarding the specifics of this UPWP 2020-2022 update during the summer and early fall.

Specific meetings include (past and upcoming):

- Planning + Pizza topic specific workshops with stakeholders:
  - 12/21/16 – FutureLV – Strengths, Opportunities, Weaknesses and Threats Discussion
  - 2/23/18 – DataLV: Information to Make Decisions By
  - 3/8/18 – Hazard Mitigation
  - 3/28/18 – Regional Housing Market Report
  - 4/17/18 – Census Training – LUCA
  - 6/27/18 – Community Survey Results
  - 7/10/18 – Hazard Mitigation II
  - 8/27/18 – How We're Growing
  - 11/28/18 – Hazard Mitigation III
  - 1/25/19 – Traffic and Commuting
  - 2/27/19 – Equity and Environmental Justice
  - 3/17/19 – FutureLV: Goals, Policy and Action Development
  - 3/27/19 – Walk/RollLV: Active Transportation Planning
  - 4/24/19 – Green Infrastructure
  - 5/29/19 – BuildLV: What's Developing, Where and What Does it Mean
  - 7/31/19 – Freight: Lehigh Valley International Airport Area Study
  - 8/28/19 – Walk/RollLV: Active Transportation Planning II
  - 9/11/19 – WalkWorks: Building Health, Transportation-Friendly Communities
  - 9/25/19 – Water Management
  - 11/20/19 – *FutureLV: The Regional Plan* – Across the Finish Line, Now What?
- February 11-13, 2019 – National Association of Regional Councils Congressional Breakfast and other Conference sessions on the future issues that will face transportation
- FutureLV Working Group – Meeting of the LVPC Commissioners and LVTS Board on the development of *FutureLV: The Regional Plan*. Meetings were held on these dates regarding the development of the plan and discussion of issues and key activities:
  - 5/21/18; 6/18/18; 7/16/18; 8/9/18; 8/20/18; 1/21/19; 2/26/19; 3/18/19; 4/22/19; 5/20/19; 6/17/19; 8/19/19; 9/16/19
- All Community General Assembly – meeting of all 62 municipalities, presentation of regional issues and open forum to discuss needs and issues of the communities:
  - 1/30/18; 7/31/18; 10/30/18; 4/30/19
- Planning Action Team Meetings – groupings of 62 municipalities into sub-regions to listen about their specific issues and needs:
  - Allentown Area – 9/12/18, 8/6/19
  - Suburban Lehigh Area – 9/13/18, 8/14/19

- Central Area – 9/18/18, 9/16/19
- Suburban Northampton Area – 9/19/18, 9/23/19
- Bethlehem Area – 9/20/18, 9/10/19
- Nazareth Area – 9/24/18, 8/20/19
- Northern Lehigh Area – 9/25/18, 8/22/19
- Southern Tier Area – 9/26/18, 9/12/19
- Easton Area – 10/1/18, 8/15/19
- Southwest Lehigh Area – 10/3/18, 8/27/19
- River Area – 10/16/18, 9/17/19
- Slate Belt Area – 11/13/18, 9/10/19
- Multimodal Working Group – specific work group to focus on bicycle and pedestrian needs
  - 11/28/19; 4/24/19; 5/22/19; 6/26/19; 9/25/19
- Public meetings, August 20<sup>th</sup> and 21<sup>st</sup>, to collect public comments for the draft *FutureLV* plan and UPWP. Combined, the team spoke to over 50 individuals
- The meetings and conversations with the following organizations have occurred:
  - Lehigh County General Services Committee – 9/14/19
  - Meeting with the Lehigh Valley Partnership Executive Committee and Full Partnership – 8/20/19
  - LANTA Capital Asset and Planning Committee – 8/20/19
  - Meeting with the Federal + State Senators and Representatives – 8/22/19
  - Urban Land Institute – 8/27/19
  - Northampton County Executive McClure – 8/30/19
  - Northampton County Staff – 9/4/19
  - Greater Lehigh Valley Chamber of Commerce Transportation Committee – 9/5/19
  - Northampton County Council – 9/5/19
  - Lehigh County Commissioners – 9/11/19
  - LVTTS Joint Technical and Coordinating Committees – 8/26/19, 8/28/19, 9/3/19, 9/4/19, 9/10/19, 9/16/19, 9/26/19
  - Greater Lehigh Valley Chamber of Commerce Board of Governors – 9/23/19
  - Pennsylvania Society of Land Surveyors - 9/24/19
- Wildlands Conservancy, Sustainable Energy Fund, Waterfront Partners, Majestic, Penn Cap, Federal Highway Administration, Delaware and Lehigh National Heritage Corridor, Northeast Pennsylvania Alliance, National Association of Regional Councils, New York Metropolitan Transportation Council, Workforce Investment Board, Lehigh Valley Economic Development Corporation, etc. – Various throughout August and September, 2019

**Constrained Funding**

**Total Constrained Funding for Years 1 and 2**

Federal/State Sources	FY 2020 Actual	FY 2021 Proposed	FY 2022 Proposed	Total
				Proposed
Motor License Funds (MLF)	\$113,000	\$113,000	\$113,000	\$226,000
Federal Highway Administration (FHWA) Metropolitan Planning Funds (PL)	\$764,000	\$802,000	\$778,000	\$1,580,000
Federal Transit Administration (FTA) Distribution	\$103,000	\$111,000	\$106,000	\$217,000
FHWA Local Technical Assistance Program (LTAP) Supplement	\$25,000	\$25,000	\$25,000	\$50,000
				<b>\$2,073,000</b>

Funding Source	Year 1	Year 2
Federal/State	\$1,051,000	\$1,022,000
Local	\$115,250	\$108,000
Total by Year	\$1,166,250	\$1,130,000
<b>UPWP Total</b>		<b>\$2,296,250</b>

- Year 2 - Funding based on estimates.
- Additionally, LVPC will be seeking Supplemental Funds for the Update of the Freight Plan.

**Budget Summary - Year 1  
July 1, 2020 – June 30, 2021**

TASK		TOTAL TASK	HIGHWAY			TRANSIT	
			Planning Funds	Motor License Funds	Local Funds	Metropolitan Planning Program Funds	Local
I	Operations, Administration and Collaboration	\$342,375	\$240,600	\$33,900	\$26,250	\$33,300	\$8,325
II	Land Use Planning, Plans, Projects and Guidance	\$570,625	\$401,000	\$56,500	\$43,750	\$55,500	\$13,875
III	Data Collection and Surveillance	\$228,250	\$160,400	\$22,600	\$17,500	\$22,200	\$5,550
<b>Subtotal</b>		<b>\$1,141,250</b>	<b>\$802,000</b>	<b>\$113,000</b>	<b>\$87,500</b>	<b>\$111,000</b>	<b>\$27,750</b>
<b>SUPPLEMENTAL FUNDS</b>							
IV	LTAP	\$25,000	\$25,000	\$0			
<b>Subtotal</b>		<b>\$25,000</b>	<b>\$25,000</b>	<b>\$0</b>		<b>\$0</b>	<b>\$0</b>
<b>TOTAL BUDGET</b>		<b>\$1,166,250</b>	<b>\$827,000</b>	<b>\$113,000</b>	<b>\$87,500</b>	<b>\$111,000</b>	<b>\$27,750</b>

**Budget Summary - Year 2  
 July 1, 2021 – June 30, 2022**

TASK		TOTAL TASK	HIGHWAY			TRANSIT	
			Planning Funds	Motor License Funds	Local Funds	Metropolitan Planning Program Funds	Local
I	Operations, Administration and Collaboration	\$331,500	\$233,400	\$33,900	\$24,450	\$31,800	\$7,950
II	Land Use Planning, Plans, Projects and Guidance	\$552,500	\$389,000	\$56,500	\$40,750	\$53,000	\$13,250
III	Data Collection and Surveillance	\$221,000	\$155,600	\$22,600	\$16,300	\$21,200	\$5,300
<b>Subtotal</b>		<b>\$1,105,000</b>	<b>\$778,000</b>	<b>\$113,000</b>	<b>\$81,500</b>	<b>\$106,000</b>	<b>\$26,500</b>
<b>SUPPLEMENTAL FUNDS</b>							
IV	LTAP	\$25,000	\$25,000	\$0	\$0	\$0	\$0
<b>Subtotal</b>		<b>\$25,000</b>	<b>\$25,000</b>	<b>\$0</b>		<b>\$0</b>	<b>\$0</b>
<b>TOTAL BUDGET</b>		<b>\$1,130,000</b>	<b>\$803,000</b>	<b>\$113,000</b>	<b>\$81,500</b>	<b>\$106,000</b>	<b>\$26,500</b>

## TASK I – OPERATIONS, ADMINISTRATION AND COLLABORATION

<u>Estimated Cost</u>	<u>2020-2021</u>	<u>2021-2022</u>
Federal Highway Administration	\$ 240,600	\$ 233,400
Federal Transit Administration	\$ 33,300	\$ 31,800
Pennsylvania Department of Transportation	\$ 33,900	\$ 33,900
Local Highway	\$ 26,250	\$ 24,450
Local Transit	\$ 8,325	\$ 7,950
<b>Total</b>	<b>\$ 342,375</b>	<b>\$ 331,500</b>

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
General Office, Unified Planning Work, Program Management, Contracting and Compliance	Develop monthly, quarterly and annual progress reports and invoices for PENNDOT and other partners	LVPC	Monthly, quarterly, annually by report type
	Coordinate and collaborate on the development of the 2022-2024 Unified Planning Work Program	LVPC, PENNDOT, USDOT	Fall 2021
	Proposal development, implementation and contracting	LVPC	As needed
	Work with PENNDOT, LANTA and other partners to review and update relevant cooperative planning and information sharing agreements	LVPC	As needed

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Lehigh Valley Planning Commission (LVPC) and Lehigh Valley Transportation Study (LVTS) Committees	Coordination and participation in LVPC and LVTS Committee Meetings, including preparation and review of agendas, meeting minutes, notices, website updates, documents, presentations, and support	LVPC	Monthly
	Coordination and participation in Freight Advisory Committee meetings, including preparation and review of agendas, meeting minutes, notices, website updates and support	LVPC, PENNDOT	Quarterly
	Coordination and participation in the- General Assembly and any associated sub-regional working groups on the transportation-land use connection, including preparation and review of agendas, meeting minutes, notices, website updates and support	LVPC, Municipal Officials	At least twice per calendar year; sub-regional meetings as needed

Unified Planning Work Program FY 2020 - 2022  
 Lehigh Valley Metropolitan Planning Organization

Lehigh Valley Planning Commission (LVPC) and Lehigh Valley Transportation Study (LVTS) Committees (cont'd)	Coordination and participation in the Multi-Modal Working Group and any ad hoc or specific issue meetings, including preparation and review of agendas, meeting minutes, notices, website updates and support	LVPC	As needed
	Create new organizational strategic plan to support the prioritization, administration, facilitation and implementation of FutureLV: The Regional Plan	LVPC, PENNDOT, FHWA, Partners	2020-2021

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Training	Coordinate and participate in Lehigh Valley Local Government Academy training	LVPC	Annually
	Develop, collaborate and participate with partners to deliver transportation training programs	LVPC, PENNDOT, Partners	At least Annually

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Agency and Partner Collaboration and Coordination	Attend Planning Partner and transportation-related meetings and workshops	LVPC	Generally, Annually
	Collaboratively work with educational institutions and non-profits to share and promote innovative transportation planning ideas and concepts that might evolve from teaching, training and research opportunities	LVPC, Partners	As needed
	Coordinate planning activities with neighboring Metropolitan Planning Organizations, transportation planning agencies, transit agencies and governments	LVPC, PENNDOT, USDOT, Partners	Generally, Quarterly
	Participate in committee and board meetings related to LANTA activities and planning studies	LVPC, LANTA	Monthly

<b>Category</b>	<b>Tasks and Deliverables</b>	<b>Responsible Entity/Entities + Collaborators</b>	<b>Completion Date</b>
Public Information	Provide data and information as requested by partners and the public	LVPC	On-going
	Solicit public input and conduct public meetings	LVPC	On-going
	Evaluate and work to mitigate the impacts of plans and programs on environmental justice communities	LVPC	On-going
	Meet with community leaders and groups, including under-represented populations, to obtain input and collaborate on transportation issues	LVPC	On-going
	Review and evaluate the effectiveness of procedures and strategies in the current Public Participation Plan and modify document, process and procedures to reflect actual engagement	LVPC	2021
	Maintain and implement a Title VI/Non-Discrimination Plan	LVPC	On-going

<b>Category</b>	<b>Tasks and Deliverables</b>	<b>Responsible Entity/Entities + Collaborators</b>	<b>Completion Date</b>
Media/Articles/ Newsletters	Maintain, update and utilize the LVPC website (DATALV) and social media accounts to support participation in programs and plans and disseminate transportation information	LVPC	On-going

## TASK II – LAND USE PLANNING, PLANS, PROJECTS AND GUIDANCE

<u>Estimated Cost</u>	<u>2020-2021</u>	<u>2021-2022</u>
Federal Highway Administration	\$ 401,000	\$ 389,000
Federal Transit Administration	\$ 55,500	\$ 53,000
Pennsylvania Department of Transportation	\$ 56,500	\$ 56,500
Local Highway	\$ 43,750	\$ 40,750
Local Transit	\$ 13,875	\$ 13,250
<b>Total</b>	<b>\$ 570,625</b>	<b>\$ 552,500</b>

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Infrastructure Funding	Solicit, prioritize, evaluate, program, monitor and administer Transportation Alternatives Set-Aside (TASA) program requests	LVPC, PENNDOT	On-going
	Share information and support the use of infrastructure funding programs such as the Pennsylvania Infrastructure Bank (PIB), Multi-Modal Transportation Fund, and public-private partnerships	LVPC	On-going
	Explore and plan for the development of new, restructured, sustainable and increased funding for infrastructure maintenance and improvements	LVPC, PENNDOT, Partners	On-going
	Assist organizations and communities with transportation funding efforts, including support letters, coordinated partner meetings and joint development of funding strategies, as necessary	LVPC, PENNDOT, Partners	On-going
	Review project selection and prioritization processes for the Long-Range Transportation Plan, TIP and TASA for consistency with performance measures and to fairly adapt to 'less infrastructure funding' environment	LVPC	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Freight and Future Forces Planning	Identify and coordinate critical freight, multi-modal transportation facilities and connectors that support the economy and deployment of new and future technologies and connect to employment centers, workforce catchment areas, national markets, and international markets	LVPC, PENNDOT, Adjacent MPOs, Mega Region Partners	On-going
	Coordinate the development of a strategic freight corridor program and begin exploring alternative fueling, connected and autonomous vehicle corridors for infrastructure management, safety and maintenance	LVPC, PENNDOT, Partners	On-going
	Designate industrial, recharge and connectivity zones to assist in better transportation movement	LVPC, Municipalities, Partners	On-going
	Support, facilitate, collaborate with local governments, private sector and the public on freight and freight-related issues, technological advancements and future forces deployment	LVPC	2020
	Participate in member groups and contribute to the greater knowledge base and problem solving on freight, technological, fueling and other transportation advancements' needs and issues. Examples include: PENNDOT Comprehensive Freight Movement Plan Update, PENNDOT Truck Parking Stakeholder Group, PENNDOT Freight Working Group, USDOT Talking Freight and other governmental, non-profit and private partner collaborative initiatives	LVPC, PENNDOT, USDOT, Municipalities	On-going
	Seek funding and potentially begin the process of updating the <i>MOVELV: Regional Freight Plan</i>	LVPC	2020-2022
	Expand freight planning, data and economic analysis capabilities and the availability of this information to the public	LVPC, Partners	On-going
	Collect and distribute data, seek potential partners, collaborations and funds that support the identification and designation of alternative fuel, connected and autonomous vehicle and other transportation future forces needs.	LVPC, PENNDOT, LANTA, LNAA, Utilities, Cellular Companies, Partners	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Transportation Planning + Plan Integration	Support and assist in the development of municipal access management plans and access control implementation	LVPC, PENNDOT, Municipalities, Partners	On-going
	Review and comment on street vacation requests, transportation impact assessments, transportation plan reviews, and transportation impact studies	LVPC	On-going
	Support and coordinate efforts associated with the continued implementation of the Moving LANTA Forward development program and transit studies	LVPC, LANTA	On-going
	Solicit and coordinate transit (LANTA) review and comments on Land Developments, Comprehensive Plans and Zoning Ordinances	LVPC, LANTA	Monthly
	Implement recommendations from the Enhanced Bus/Bus Rapid Transit Study	LVPC, LANTA	On-going
	Coordinate, facilitate and support regional bicycle, pedestrian, last steps to transit, multi-modal and commuter corridor identification and designation, and other multi-modal activities	LVPC, PENNDOT, LANTA, Municipalities, Partners	On-going
	Integrate transportation planning with land-use planning in cooperation with local, county, state and federal partners	LVPC, PENNDOT, USDOT, LANTA, Municipalities, Partners	On-going
	Identify livability, sustainability, equity and resiliency planning strategies to tie the quality and location of transportation facilities and services to broader opportunities	LVPC, LANTA, PENNDOT, Municipalities	On-going
	Prioritize, develop and prepare corridor master plans and implementation strategies for those areas subject to growth pressures, redevelopment and access management issues	LVPC, Municipalities, Partners	On-going
	Collaborate with the Lehigh and Northampton Airport Authority on infrastructure improvements, enhanced logistical operations and implementation and, as consistent with land-use policy, implementation of the Airport Master Plan	LVPC, Airport Authority	On-going
Support corridor urban/community design programs that guide corridor planning initiatives and engages stakeholders locally and regionally	LVPC, PENNDOT, LANTA, Municipalities, Partners	On-going	

Transportation Planning + Plan Integration (cont'd)	Review and comment on Highway Functional Classification and update the National Highway Performance Program as needed, incorporating any changes into transportation planning and project work	LVPC, PENNDOT, USDOT	As Needed
	Maintain the Congestion Management Process (CMP) by reviewing high priority corridors, conducting studies, identifying mitigation strategies, developing action and after-action plans, assisting local governments in congested corridors, and providing guidance related to alternative access and circulation	LVPC, PENNDOT, Municipalities, Partners	On-going; Focused effort in 2021-2022
	Develop, collaborate on, review and implement performance metrics and other new or enhanced portions of federal transportation legislation	LVPC, PENNDOT, USDOT, LANTA, Partners	On-going and As Needed
	Participate in, contribute to and collaborate on future technologies, shared economies, globalization and other transportation-based needs that require preparation	LVPC, PENNDOT, USDOT, LANTA, Municipalities, Partners	On-going
	Internal coordination and development of transportation-related content to LVPC regional planning documents, including the Comprehensive Plan, multi-municipal area plans, environmental management, and parks, recreation and open space plans	LVPC	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Agency Project and Plan Collaboration and Delivery	Review and comment on PENNDOT reports and initiatives, including pilot projects, guidance reports, and operational plans	LVPC, PENNDOT	On-going
	Participate in and attend Planning Catalyst Team and other relevant PENNDOT committee meetings	LVPC, PENNDOT	On-going
	Assist PENNDOT with implementing the Pennsylvania Climate Change Action Plan and coordinate this effort with the <i>Lehigh Valley Hazard Mitigation Plan</i> and future climate action and integrated water resources management efforts	LVPC, PENNDOT	On-going
	Work with PENNDOT to meet Linking Planning and the National Environmental Protection Act (NEPA) and Congestion Mitigation and Air Quality requirements, including analysis and reporting	LVPC, PENNDOT	On-going
	Coordinate, facilitate, participate in and support meetings between project sponsors, PENNDOT and the public, including PENNDOT Connects	LVPC, PENNDOT, LANTA, Municipalities, Partners	On-going

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Safety Programs	Continue an outreach program to solicit input and promote and address bicycle and pedestrian safety issues	LVPC, PENNDOT, LANTA, Partners	Annually or more frequently
	Monitor and implement the <i>Traffic Safety Plan</i> and comprehensively update the plan	LVPC	On-going; Plan update 2020-2021
	Prioritize, select areas, develop safety strategies and program capital improvement recommendations as funding allows	LVPC, PENNDOT, LANTA, Municipalities	Annually
	Explore the creation of a Regional Traffic Incident Management Committee	LVPC, PENNDOT, Regional EMS, Partners	2022

Category	Tasks and Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Transportation Improvement Program (TIP) & Long-Range Transportation Plan (LRTP/FutureLV)	Coordinate with PENNDOT, FHWA, and FTA on the preparation and adoption of the 2023-2026 TIP	LVPC, PENNDOT, USDOT	2022
	Monitor and advance non-traditional projects, evaluate projects that are likely to cause region-wide work zone impacts, and advance projects that promote or enhance transportation management plans	LVPC	On-Going
	Work with PENNDOT to document the process for coordinating changes to the TIP and LRTP/FutureLV to ensure fiscal constraint	LVPC, PENNDOT	As Needed
	Review the TIP and LRTP/Future LV updates and present them to LVTS, LVPC, the Counties and the public	LVPC	As Needed
	Incorporate performance metrics into the planning and decision-making processes of the TIP and LRTP/FutureLV	LVPC	On-Going
	Begin the update of the LRTP, for adoption in 2023	LVPC, PENNDOT, Counties	2022
	Enhance the usability, communication and understanding of the LRTP/FutureLV and TIP processes and projects	LVPC, PENNDOT	On-Going

### TASK III – DATA COLLECTION, ANALYSIS AND SURVEILLANCE

<u>Estimated Cost</u>	<u>2020-2021</u>	<u>2021-2022</u>
Federal Highway Administration	\$ 160,400	\$ 155,600
Federal Transit Administration	\$ 22,200	\$ 21,200
Pennsylvania Department of Transportation	\$ 22,600	\$ 22,600
Local Highway	\$ 17,500	\$ 16,300
Local Transit	\$ 5,550	\$ 5,300
<b>Total</b>	<b>\$ 228,250</b>	<b>\$ 221,000</b>

Category	Specific Task + Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Transportation Counts and Segment Inventory	Collect and submit PENNDOT assigned traffic counts	LVPC, PENNDOT	Annually
	Verify and update roadway segment inventory and performance measures as assigned by PENNDOT	LVPC, PENNDOT	Annually
	Attend Highway Performance Monitoring System and Traffic Workshop training provided by PENNDOT	LVPC, PENNDOT	As Available
	Prepare, report and communicate findings detailing the LVPC's traffic counting program, traffic findings, and traffic trends (DataLV)	LVPC	Annually
	Collect key counts that assist in monitoring and managing the transportation-land use connection	LVPC	Annually
	Explore the potential of establishing a bicycle and pedestrian count program	LVPC	As Needed

Category	Specific Task + Deliverables	Responsible Entity/Entities + Collaborators	Completion Date
Data, Modeling and Information Systems	Develop, maintain and enhance transportation GIS coverages, including the creation of new coverage for locally owned, non-federal aid roadways, multimodal corridors, LANTA routes, rail lines and other transportation systems	LVPC	On-Going
	Investigate and implement alternatives and conflict scenario modeling to support land-planning and transportation projects	LVPC	On-Going
	Maintain and update the Regional Travel Demand Model	LVPC, PENNDOT	On-Going
	Explore the availability and attainability of new data resources that directly support the transportation program. Integrate them into safety, congestion management, project selection and other relevant processes	LVPC	On-Going

Data, Modeling and Information Systems (cont'd)	Continue to develop alternative and future growth scenarios and their impact on the transportation network	LVPC	On-Going
	Build in capacity and utilize Regional Economic Modeling (REM) to support the transportation program, improve metrics and impact understanding and decision-making	LVPC	On-Going
	Develop and maintain a comprehensive, publically accessible online data portal (DataLV) on the transportation system and land use connection for the Lehigh Valley	LVPC	Bi-Annually

## TASK IV – LOCAL TECHNICAL ASSISTANCE PROGRAM (LTAP)

<u>Estimated Cost</u>	<u>2020-2021</u>	<u>2021-2022</u>
Federal Highway Administration	\$ 25,000	\$ 25,000
Federal Transit Administration	\$ -	\$ -
Pennsylvania Department of Transportation	\$ -	\$ -
Local Highway	\$ -	\$ -
Local Transit	\$ -	\$ -
<b>Total</b>	<b>\$ 25,000</b>	<b>\$ 25,000</b>

Category	Specific Task + Deliverables	Responsible Entity/Entities and Collaborators	Completion Date
Local Technical Assistance Program (LTAP)	Survey, identify, advertise, and schedule regional training needs	LVPC	Ongoing
	Create materials and market the value of the LTAP program	LVPC	Annually
	Participate in the LTAP Annual Meeting and other meetings and trainings	LVPC	As Needed
	Prepare and submit quarterly and annual reports to PENNDOT detailing project activities	LVPC	Quarterly and Annually
	Coordinate, promote and participate in LTAP technical assistance to Lehigh Valley municipalities; Incorporate projects into transportation planning programs, as needed	LVPC	Annually
	Plan, coordinate and execute a Lehigh Valley Annual Participant Meeting	LVPC	Annually

# **Appendix A - TRANSIT Lehigh and Northampton Transportation Authority (LANTA)**

## **TASK I - ADMINISTRATION**

A portion of the program is directed toward routine administrative functions and overhead costs. Supported tasks are accounting, general program administration, facility-related costs and other items associated with LANTA's cost allocation plan.

## **TASK II - PUBLIC INFORMATION**

Activities necessary for the formation and implementation of a public involvement process and the provision of customer information are included under this work task. LANTA will coordinate its public transportation information efforts with those of LVTS in order to enhance both public involvement processes.

LANTA's public information and involvement process is ongoing and extensive. The following items are part of this overall effort: Provision and maintenance of service information through printed and online media; public hearings and meetings; public outreach efforts that include meetings that target specific interest groups (e.g., Center for Independent Living, local planning and municipal bodies, employer organizations, economic development organizations, etc.) and direct contact to under-represented individuals, including senior citizens, disabled, minorities, etc.; the distribution of specific announcements relative to planning and other program adjustments through on-board, direct mail or other similar procedures; other online communication methods as opportunities arise; and continued research and implementation of real-time service information tools.

LANTA's procedures for outreach and public participation are extensive and inclusive. Components of this program are available to LVTS and PennDOT District 5 to assist in the gathering of input on topics that are intermodal.

The primary goal of the public information program for this work year will be the continuous improvement of all phases of LANTA's suite of real-time bus information tools, including the Bus Tracker. This includes web page, social media, telephone call center and smart phone application-based utilities.

## **TASK III – SURVEILLANCE/ASSET MANAGEMENT**

LANTA will maintain and enhance its public transportation management system and will participate, as appropriate, in the MPO's development of the congestion management process and the intermodal management system. Particular components of the public transportation management system will include: market research of both users and non-users of the public transportation system; maintenance of route ridership information and system-wide operating data through manual and automated collection methodologies; maintenance of equipment and facility inventory and condition information reflecting the Federal Transit Administration's (FTA) required Transit Asset Management (TAM) Plan; the development of special surveys and in-house reviews and the compilation of various database elements; the identification of necessary performance measures and the routine evaluation of system performance; the development, evaluation and routine monitoring of Americans with Disabilities Act (ADA) paratransit performance systems; and the collection and monitoring of information relative to major transportation

terminals at key transfer points and intermodal interface points.

LANTA will utilize these data systems in planning for changes and revisions to the public transportation system and the required capital support. The data sets are available in usable form for necessary input into regional and statewide management systems.

In addition, data collected by LANTA will be shared with the LVPC for modeling purposes such as transit demand by bus stop location and average bus running speeds by corridor segment. With this data, the LVPC can also provide LANTA with demographic analysis and land use information along high performing corridors and around high performing stops, which will allow it to determine the mix of demographic and land use conditions that most effectively create transit demand in the service area.

#### **TASK IV - SYSTEM PLANNING**

The system planning component of LANTA's efforts will be directed toward the development of short and long range plans. Elements of these plans will address necessary metropolitan and system planning. Much of LANTA's efforts in these program years will involve continuous service improvement efforts based on its adopted LANTA Bus Service and Performance Guidelines. LANTA prepares an Annual Service Performance Report which compares its current service to its adopted guidelines. Findings from this report guide planning actions for the subsequent year.

In 2013, LANTA completed the Lehigh Valley Enhanced Bus/Bus Rapid Transit Study. Efforts in FY 2019 and 2020 will be directed toward implementing the recommendations of the study. This will include in-house service planning as well as coordination with the LVPC and PennDOT to incorporate recommended elements into other transportation projects involving the study corridors, including signal retiming, signal prioritization studies and intersection reconstruction. In addition, LANTA will work closely with the LVPC to use the long-range transportation plan process to help identify priorities for the Enhanced Bus/Bus Rapid Transit Study recommendations and to then include these prioritized recommendations in the long-range plan document.

Other key areas of the system planning component will include: service planning and coordination efforts associated with the continued implementation of the *Moving LANTA Forward* program; outreach and coordination efforts with local municipal planning officials regarding transit-friendly land use development; planning and provision of passenger amenities and signage at bus stops and transit centers; planning for safe and convenient access to bus stops and transit centers through the identification of needed improvements to the pedestrian environment; routine reassessment and planning of route adjustments throughout the fiscal year affecting the LANTA Bus division; capital improvement program analyses and updates for use in TIP development; the update and revisions to financial plans; maintenance of the strategic plan for system development; involvement in long range planning efforts per LVTS and other government agency requirements, including the preparation of the public transportation portion of the long range transportation plan; the assessment of involvement of private carriers in program development efforts; the maintenance of clean air planning program elements; involvement in particular local projects related to community and industrial development, i.e. transit related components; the continuing assessment of transit system issues, including maintenance and operating procedures, safety and security, procurement, education and professional development; necessary updates to ADA implementation plans; and direct input to statewide plan efforts as required.

## **TASK V - TIP DEVELOPMENT AND MAINTENANCE**

The annual programming process is a key part of LANTA's planning efforts. This work relates directly to the LVTS process as well as the internal needs of LANTA's operations. Key programming elements include: LANTA's annual Program of Projects; input to the development of the TIP; annual financial capacity assessments and budget plans; and provision of long range programming elements affecting LVTS's LRTP and PENNDOT 'S TYP.

## **TASK VI - SPECIAL STUDIES AND LTAP**

Technical Support - LANTA will be involved as a liaison with projects that require major investment studies.

New Technology Applications - LANTA continues to explore new technology and how to employ it to make the transit system more efficient and more responsive to community needs. Staff work includes applications in the following areas:

- Data management and systems planning
- Geographic Information System (GIS) applications
- Automatic Vehicle Location (AVL) systems
- Computerized run-cutting programs for the LANTA Bus System

With LANTA's Advanced Transit Management System (ATMS) installed and functional, LANTA's efforts in these task years will include the continued optimization and improvement of the ATMS to maximize data quality and the continued incorporation of the data reporting capabilities of the system into planning and operations oversight processes.

Also, much of LANTA's work in this task will be directed towards the continued development of capabilities and procedures for fully automated run-cutting and schedule document preparation using fixed route scheduling software.



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