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Transportation Planner



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MEMORANDUM

To: Kingsport MTPO Executive Board
All Interested Parties

From: Lesley Phillips, Transportation Planner

Date: December 29, 2021

Subject: Long Range Transportation Plan Amendment #2 – Public Review Period

The Kingsport MTPO has a proposed amendment to our 2040 Long Range Transportation Plan (LRTP). Attached you will find documentation for the following changes:

Project: I-81 ITS Expansion

LRTP Page #: 7-4

Changes:

- Update termini
- Update length
- Update description
- Update YOE Cost
- Update funding source

Reason for Changes:

This is a state IMPROVE Act project. TDOT has proposed an Amendment to our Transportation Improvement Program (TIP) which increases the total project cost, changes the termini, and increases the project length thus also creating the need for a LRTP Amendment. The project description and funding source have also been updated.

As required by our Public Participation Plan, LRTP Amendment #2 is available for public review for at least 30 days (December 30, 2021 through January 31, 2022) prior to Executive Board action. Comments may be sent to MTPO@KingsportTN.gov by 5:00 pm (Eastern Time) on January 31, 2022. Comments can also be made at the MTPO Executive Board meeting on February 3, 2022 at 1:30 pm.

Thank you!

Table 7-4
Planned Project Improvements (Cost Feasible) - Tennessee

ID	Horizon Year	Route	From Road	To Road	Description	Length (miles)	YOE Cost	Funding
L1	-	Fort Henry Drive (SR-36)	Interstate 81	Airport Road (SR-75)	Widen existing 2 lane road to 5 lanes with sidewalks on both sides	3.5	\$88,600,000	IMPROVE
L70	-	Interstate 81	Interstate 26 Interchange (Exit 57)	Virginia State Line	ITS expansion	18.8	\$1,780,000	IMPROVE
P22	-	Stone Drive (US-11)	Bridge over North Fork Holston River		Bridge replacement/rehabilitation	0.1	\$ 2,947,000	IMPROVE
P21	-	Stone Drive (US-11)	Bridge over North Fork Holston River		Bridge replacement/rehabilitation	0.1	\$1,745,000	IMPROVE
P27	-	Industry Drive	Bridge over Reedy Creek		Bridge replacement/rehabilitation	0.1	\$2,831,000	IMPROVE
P23	-	Fordtown Road	Bridge over CSX Railroad		Bridge replacement/rehabilitation	0.1	\$1,505,000	IMPROVE
P28	-	John B. Dennis (SR-93)	Bridge over CSX Railroad		Bridge replacement/rehabilitation	0.1	\$2,081,000	IMPROVE
P20	-	Fort Henry Drive (SR-36)	Wesley Road	Rock Springs Road	Replace northbound bridge over the South Fork Holston River for safety	0.1	\$9,250,000	IMPROVE
L57	-	Fort Henry Drive (SR-36)	Wesley Road	Rock Springs Road	Replace southbound bridge over the South Fork Holston River for safety	0.2	\$12,829,000	IMPROVE
P24	-	Old Blair Gap Road	Bridge over Walker Fort Creek		Bridge replacement/rehabilitation	0.1	\$496,000	IMPROVE
P25	-	Reedy Creek Lane	Bridge over Reedy Creek		Bridge replacement/rehabilitation	0.1	\$232,000	IMPROVE
P26	-	Meadow Brooke Lane	Bridge over Reedy Creek		Bridge replacement/rehabilitation	0.1	\$851,000	IMPROVE
L54	2025	Clinchfield Street	Main Street	Stone Drive (US-11)	Coordinate signal system to improve traffic flow	1.2	\$320,000	L-STBG
L62	2025	Stone Drive (US-11)	Gibson Mill Road	Deneen Lane	Coordinate signal system	2.8	\$190,000	NHPP
L22	2025	Stone Drive (US-11)	John B. Dennis (SR-93)	Cleek Road	Improve intersections and coordinate signal timings	3.1	\$1,080,000	NHPP
L12	2025	Fort Henry Drive (SR-36)	Moreland Drive/ Hemlock Road	Interstate 81 (I-81)	Improve intersections, coordinate signal timings, and evaluate driveway cuts	1.4	\$1,900,000	NHPP
L20	2025	Stone Drive West (US-11)	Kaywood Avenue	Granby Road	Install signal system with advanced warning signals to improve safety at intersections	2.5	\$80,000	NHPP
L53	2025	Bloomingtondale Pike	John B. Dennis (SR-93)	Packinghouse Road	Improve shoulders and geometry with spot safety improvements	1.5	\$1,270,000	Local
L35	2025	East Sullivan Street	Church Circle	Main Street	Widen to 2/3 lanes with multimodal and aesthetic improvements	1.0	\$6,330,000	Local
L11	2025	Fort Henry Drive (SR-36)	John B Dennis (SR-93)	Moreland Drive / Hemlock Road	Improve intersections and coordinate signal timings; install median where non-existent	2.0	\$950,000	NHPP
L17	2025	Tranbarger Drive	Lynn Garden Drive (SR-36)	Virgil Avenue	Improve shoulders and geometry with spot safety improvements with additional safety improvements	1.0	\$920,000	Local
L65	2025	Interstate 26	John B. Dennis (SR-93)	I-26 Exit 6 (SR-347 Rock Springs Road)	Add eastbound truck climbing lane	1.9	\$2,790,000	NHFP
L60	2025	Lincoln Street	John B. Dennis (SR-93)	Wilcox Drive (SR-126)	Coordinate signal system	1.7	\$630,000	NHPP
L58	2025	John B. Dennis (SR-93)	Stone Drive (US-11)	Bloomingtondale Pike	Implement access management	2.4	\$760,000	NHPP

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L70	-	Interstate 81	Near Interstate 26 Interchange (Exit 57)	Near I-381 in Virginia	Intelligent Transportation System expansion (IA)	23.3	\$8,900,000	NHPP
P22	-	Stone Drive (US-11)	Bridge over North Fork Holston River		Bridge replacement/rehabilitation	0.1	\$ 2,947,000	IMPROVE
P21	-	Stone Drive (US-11)	Bridge over North Fork Holston River		Bridge replacement/rehabilitation	0.1	\$1,745,000	IMPROVE
P27	-	Industry Drive	Bridge over Reedy Creek		Bridge replacement/rehabilitation	0.1	\$2,831,000	IMPROVE
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P20	-	Fort Henry Drive (SR-36)	Wesley Road	Rock Springs Road	Replace northbound bridge over the South Fork Holston River for safety	0.1	\$9,250,000	IMPROVE
L57	-	Fort Henry Drive (SR-36)	Wesley Road	Rock Springs Road	Replace southbound bridge over the South Fork Holston River for safety	0.2	\$12,829,000	IMPROVE
P24	-	Old Blair Gap Road	Bridge over Walker Fort Creek		Bridge replacement/rehabilitation	0.1	\$496,000	IMPROVE
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L53	2025	Bloomington Pike	John B. Dennis (SR-93)	Packinghouse Road	Improve shoulders and geometry with spot safety improvements	1.5	\$1,270,000	Local
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L65	2025	Interstate 26	John B. Dennis (SR-93)	I-26 Exit 6 (SR-347 Rock Springs Road)	Add eastbound truck climbing lane	1.9	\$2,790,000	NHFP
L60	2025	Lincoln Street	John B. Dennis (SR-93)	Wilcox Drive (SR-126)	Coordinate signal system	1.7	\$630,000	NHPP
L58	2025	John B. Dennis (SR-93)	Stone Drive (US-11)	Bloomington Pike	Implement access management	2.4	\$760,000	NHPP

**Table 6-10
Streets & Highways
Capital Revenues and Expenditures - Tennessee**

2025		Budgeted				Remainder
Funding Programs	Revenue	Project Specific	Bridge Program	Safety/Traffic Program	Bike/Ped Program	
National Highway Performance Program (NHPP)	\$31,120,000	\$27,680,000		\$3,440,000		\$0
Surface Transportation Block Grant Program (S-STBG) State	\$2,169,000	\$530,000		\$1,093,000	\$546,000	\$0
NHPP Grouping, STBG Grouping, Safety Grouping, ITS/Traffic Operations/Safety	\$5,158,000					
	\$19,268,000			\$31,022,000		\$0
	\$6,596,000					
Bridge Rehabilitation & Replacement (BRR or BR)	\$7,503,000		\$7,503,000			\$0
Surface Transportation Block Grant Program (L-STBG) Local	\$23,086,000	\$21,870,000			\$1,216,000	\$0
Enhancement Funds (EHN, TAP, or RTP)	\$3,298,000				\$3,298,000	\$0
Other Federal-Aid Programs & Discretionary Funds	\$5,277,000	\$2,790,000			\$2,487,000	\$0
Local (All allocations in Sullivan County/Kingsport)	\$28,059,000	\$19,170,000			\$8,889,000	\$0
STA	\$5,277,000			\$5,277,000		\$0
IMPROVE Act	\$125,147,000	\$125,147,000				\$0
Totals	\$261,958,000	\$197,187,000	\$7,503,000	\$40,832,000	\$16,436,000	\$0

2025 TN Capital Expenditures	
LRTP Roadway Projects	\$72,040,000
IMPROVE Roadway Projects	\$88,600,000
LRTP Bridge Program	\$7,503,000
IMPROVE Bridge Projects	\$34,767,000
LRTP Safety/Traffic Program	\$40,832,000
IMPROVE ITS	\$1,780,000
LRTP Bike/Ped Program	\$16,436,000
Total	\$261,958,000

2025 - Investments	
Roadway Improvements	61%
Bridge Improvements	16%
Safety/Traffic Operations	16%
Bike/Ped Improvements	7%
Total	100%

	2025	2040	Total
TN - Capital Revenues	\$136,811,000	\$275,007,000	\$411,818,000
IMPROVE Act	\$125,147,000		\$125,147,000
Total Capital Revenues	\$261,958,000	\$275,007,000	\$536,965,000

2040		Budgeted				Remainder
Funding Programs	Revenue	Project Specific	Bridge Program	Safety/Traffic Program	Bike/Ped Program	
National Highway Performance Program (NHPP)	\$62,555,000	\$62,490,000		\$65,000		\$0
Surface Transportation Block Grant Program (S-STBG) State	\$4,361,000	\$2,260,000		\$2,101,000		\$0
NHPP Grouping, STBG Grouping, Safety Grouping, ITS/Traffic Operations/Safety	\$10,368,000					
	\$38,730,000			\$62,357,000		\$0
	\$13,259,000					
Bridge Rehabilitation & Replacement (BRR or BR)	\$15,082,000		\$15,082,000			\$0
Surface Transportation Block Grant Program (L-STBG) Local	\$46,406,000	\$44,070,000		\$500,000	\$1,836,000	\$0
Enhancement Funds (EHN, TAP, or RTP)	\$6,629,000				\$6,629,000	\$0
Other Federal-Aid Programs & Discretionary Funds	\$10,607,000	\$5,780,000		\$827,000	\$4,000,000	\$0
Local (All allocations in Sullivan County/Kingsport)	\$56,403,000	\$36,120,000		\$4,958,500	\$15,324,500	\$0
STA	\$10,607,000			\$10,607,000		\$0
Totals	\$275,007,000	\$150,720,000	\$15,082,000	\$81,415,500	\$27,789,500	\$0

2040 TN Capital Expenditures	
LRTP Roadway Projects	\$150,720,000
LRTP Bridge Program	\$15,082,000
LRTP Safety/Traffic Program	\$81,415,500
LRTP Bike/Ped Program	\$27,789,500
Total	\$275,007,000

2040 - Investments	
Roadway Improvements	55%
Bridge Improvements	5%
Safety/Traffic Operations	30%
Bike/Ped Improvements	10%
Total	100%

2025 & 2040 TN Capital Expenditures	
LRTP Roadway Projects	\$222,760,000
IMPROVE Roadway Projects	\$88,600,000
LRTP Bridge Program	\$22,585,000
IMPROVE Bridge Projects	\$34,767,000
LRTP Safety/Traffic Program	\$122,247,500
IMPROVE ITS	\$1,780,000
LRTP Bike/Ped Program	\$44,225,500
Total	\$536,965,000

2025 & 2040 - Investments	
Roadway Improvements	58%
Bridge Improvements	11%
Safety/Traffic Operations	23%
Bike/Ped Improvements	8%
Total	100%

**Table 6-10
Streets & Highways
Capital Revenues and Expenditures - Tennessee**

2025		Budgeted				Remainder
Funding Programs	Revenue	Project Specific	Bridge Program	Safety/Traffic Program	Bike/Ped Program	
National Highway Performance Program (NHPP)	\$31,120,000	\$27,680,000		\$3,440,000		\$0
Surface Transportation Block Grant Program (S-STBG) State	\$2,169,000	\$530,000		\$1,093,000	\$546,000	\$0
NHPP Grouping, STBG Grouping, Safety Grouping, ITS/Traffic Operations/Safety	\$5,158,000			\$31,022,000		\$0
	\$19,268,000					
	\$6,596,000					
Bridge Rehabilitation & Replacement (BRR or BR)	\$7,503,000		\$7,503,000			\$0
Surface Transportation Block Grant Program (L-STBG) Local	\$23,086,000	\$21,870,000			\$1,216,000	\$0
Enhancement Funds (EHN, TAP, or RTP)	\$3,298,000				\$3,298,000	\$0
Other Federal-Aid Programs & Discretionary Funds	\$5,277,000	\$2,790,000			\$2,487,000	\$0
Local (All allocations in Sullivan County/Kingsport)	\$28,059,000	\$19,170,000			\$8,889,000	\$0
STA	\$5,277,000			\$5,277,000		\$0
IMPROVE Act	\$123,367,000	\$123,367,000				\$0
IMPROVE Act/NHPP	\$8,900,000	\$8,900,000				\$0
Totals	\$269,078,000	\$204,307,000	\$7,503,000	\$40,832,000	\$16,436,000	\$0

2025 TN Capital Expenditures	
LRTP Roadway Projects	\$72,040,000
IMPROVE Roadway Projects	\$88,600,000
LRTP Bridge Program	\$7,503,000
IMPROVE Bridge Projects	\$34,767,000
LRTP Safety/Traffic Program	\$40,832,000
IMPROVE ITS	\$8,900,000
LRTP Bike/Ped Program	\$16,436,000
Total	\$269,078,000

2025 - Investments	
Roadway Improvements	60%
Bridge Improvements	16%
Safety/Traffic Operations	18%
Bike/Ped Improvements	6%
Total	100%

	2025	2040	Total
TN - Capital Revenues	\$136,811,000	\$275,007,000	\$411,818,000
IMPROVE Act	\$132,267,000		\$132,267,000
Total Capital Revenues	\$269,078,000	\$275,007,000	\$544,085,000

2040		Budgeted				Remainder
Funding Programs	Revenue	Project Specific	Bridge Program	Safety/Traffic Program	Bike/Ped Program	
National Highway Performance Program (NHPP)	\$62,555,000	\$62,490,000		\$65,000		\$0
Surface Transportation Block Grant Program (S-STBG) State	\$4,361,000	\$2,260,000		\$2,101,000		\$0
NHPP Grouping, STBG Grouping, Safety Grouping, ITS/Traffic Operations/Safety	\$10,368,000			\$62,357,000		\$0
	\$38,730,000					
	\$13,259,000					
Bridge Rehabilitation & Replacement (BRR or BR)	\$15,082,000		\$15,082,000			\$0
Surface Transportation Block Grant Program (L-STBG) Local	\$46,406,000	\$44,070,000		\$500,000	\$1,836,000	\$0
Enhancement Funds (EHN, TAP, or RTP)	\$6,629,000				\$6,629,000	\$0
Other Federal-Aid Programs & Discretionary Funds	\$10,607,000	\$5,780,000		\$827,000	\$4,000,000	\$0
Local (All allocations in Sullivan County/Kingsport)	\$56,403,000	\$36,120,000		\$4,958,500	\$15,324,500	\$0
STA	\$10,607,000			\$10,607,000		\$0
						\$0
Totals	\$275,007,000	\$150,720,000	\$15,082,000	\$81,415,500	\$27,789,500	\$0

2040 TN Capital Expenditures	
LRTP Roadway Projects	\$150,720,000
LRTP Bridge Program	\$15,082,000
LRTP Safety/Traffic Program	\$81,415,500
LRTP Bike/Ped Program	\$27,789,500
Total	\$275,007,000

2040 - Investments	
Roadway Improvements	55%
Bridge Improvements	5%
Safety/Traffic Operations	30%
Bike/Ped Improvements	10%
Total	100%

2025 & 2040 TN Capital Expenditures	
LRTP Roadway Projects	\$222,760,000
IMPROVE Roadway Projects	\$88,600,000
LRTP Bridge Program	\$22,585,000
IMPROVE Bridge Projects	\$34,767,000
LRTP Safety/Traffic Program	\$122,247,500
IMPROVE ITS	\$8,900,000
LRTP Bike/Ped Program	\$44,225,500
Total	\$544,085,000

2025 & 2040 - Investments	
Roadway Improvements	57%
Bridge Improvements	11%
Safety/Traffic Operations	24%
Bike/Ped Improvements	8%
Total	100%