FFY 2019-2022 TRANSPORTATION IMPROVEMENT PROGRAM













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Title VI Note:

The L-DC MPO hereby gives public notice that it is the policy of the agency to assure full compliance with Title VI of the Civil Rights Act of 1964, the Civil Rights Restoration Act of 1987, Executive Order 12898 on Environmental Justice, and related statutes and regulations in all programs and activities. Title VI requires that no person in the United States of America shall, on the grounds of race, color, national origin, sex, age, or handicap/disability, be excluded from the participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the L-DC MPO receives federal financial assistance. Any person who believes they have been aggrieved by an unlawful discriminatory practice under Title VI has a right to file a formal complaint with the L-DC MPO. Any such complaint must be in writing and filed with the L-DC MPO's Title VI Coordinator within one hundred and eighty (180) days following the date of the alleged discriminatory occurrence. For more information, or to obtain a Title VI Discriminatory Complaint Form, please see our website at www.lawrenceks.org/MPO.

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MPO Self-Certification

The Kansas Department of Transportation (KDOT) and the Lawrence - Douglas County Metropolitan Planning Organization (MPO) certify that the metropolitan transportation planning process is being carried out in accordance with all applicable requirements including the following:

- 1. 23 U.S.C. 134, 49 U.S.C. 5303, and this subpart: All core documents are current:
- 2. In nonattainment and maintenance areas, Sections 174 and 176 (c) and (d) of the Clean Air Act, as amended (42 USC 7504, 7506 (c) and (d)) and 40 CFR Part 93;
- 3. Title VI of the Civil Rights Act of 1964, as amended (42 USC 2000d-1) and 49 CFR Part 21;
- 4. 49 USC 5332, prohibiting discrimination on the basis of race, color, creed, national origin, sex, or age in employment or business opportunity;
- 5. Section 1101(b) of the SAFETEA-LU (Pub. L. 109-59) and 49 CFR Part 26 regarding the involvement of disadvantaged business enterprises in USDOT funded projects;
- 6. 23 CFR Part 230, regarding the implementation of an equal employment opportunity program on Federal and Federal-aid highway construction contracts,
- 7. The provisions of the Americans with Disabilities Act of 1990 (42 USC 12101 et seq.) and 49 CFR Parts 27, 37, and 38;
- 8. The Older Americans Act, as amended (42 USC 6101), prohibiting discrimination on the basis of age in programs or activities receiving Federal financial assistance;
- 9. Section 324 of Title 23 USC regarding the prohibition of discrimination based on gender; and
- 10. Section 504 of the Rehabilitation Act of 1973 (29 USC 794) and 49 CFR Part 27 regarding discrimination against individuals with disabilities.

Cory Davis, Chair

Lawrence-Douglas County MPO

Michael J Moriarty

Bureau Chief of Transportation Planning Kansas Department of Transportation

Definitions

ADA	ADA- Americans with Disabilities Act of 1990 (P.L. 101-336) and ADA Amendment Act of 2008 (P.L. 110-325)
BAC	Bicycle Advisory Committee
BNSF	Burlington Northern-Santa Fe Railroad
CAPITAL	Purchase of equipment
CDBG	Community Development Block Grant
CFR	Code of Federal Regulations
CIP	Capital Improvement Program
CONST	Construction
CTD	Coordinated Transit District
CTP	Comprehensive Transportation Program
E+C	Existing Plus Committed
EJ	Environmental Justice
EPA	U.S. Environmental Protection Agency
FAA	Federal Aviation Administration
FAST Act	Fixing America's Surface Transportation Act (P.L. 114-94) (Signed by President Obama on December 4, 2015)
FFY	Federal Fiscal Year
FHWA	Federal Highway Administration
FTA	Federal Transit Administration
HOV	High-Occupancy Vehicle Lanes
ITS	Intelligent Transportation Systems
KDOT	Kansas Department of Transportation
KLINK	Kansas Connecting Link Program
KTA	Kansas Turnpike Authority
KU	University of Kansas, Lawrence
KUOW	KU on Wheels Transit Service
LOS	Level of Service
MAP-21	Moving Ahead for Progress in the 21st Century Act (P.L. 112-141) (Signed by President Obama on July 6, 2012)
MPO	Metropolitan Planning Organization,
MPO	such as the Lawrence-Douglas County Metropolitan Planning Organization
MTP	Metropolitan Transportation Plan
NHS	National Highway System
0 & M	Operation and Maintenance
OPERATING	Operation of transit
PE	Preliminary Engineering
PPP	Public Participation Plan
PTAC	Public Transportation Advisory Committee
ROW	Right-of-Way
RRFBs	Rectangular Rapid Flash Beacons
RTAC	Regional Transit Advisory Committee
STBG	Surface Transportation Block Grant Program
STIP	State Transportation Improvement Program
STP	Surface Transportation Program
T2040	Transportation 2040 -
TAC	the Long Range Transportation Plan for the Lawrence-Douglas County region
TAC	Technical Advisory Committee
TAZ	Traffic Analysis Zone
TDM	Travel Demand Management
TA	Transportation Alternatives
TIP	Transportation Improvement Program
TSM	Transportation System Management
UGA	Urban Growth Area
UP	Union Pacific
UPWP	Unified Planning Work Program
USC	United States Code
UTIL	Utilities

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INTRODUCTION

What is an MPO?

A Metropolitan Planning Organization (MPO) is a regional decision making body charged with developing a transportation plan and related policy and programming documents. The Lawrence-Douglas County MPO is comprised of a Policy Board composed of mostly elected officials, a Technical Advisory Committee (TAC) made up of transportation and engineering professionals, the MPO Staff, and various other advisory groups that the MPO may form. Figure 1 displays the MPO structure. The MPO develops four core documents that create a regional vision for how the multimodal transportation system will function and grow – now and into the future. The MPO's core documents are the Metropolitan Transportation Plan (MTP), Transportation Improvement Program (TIP), the Unified Planning Work Program (UPWP), and the Public Participation Plan (PPP).

The MPO is a group that is composed of representatives from many local governments that collectively discusses the transportation issues facing the metropolitan area and then makes decisions about how to address those issues.

Figure 1: MPO Structure

Primarily Elected Officials (Final decision-maker for the MPO)

 Technical Advisory Committee & Regional Transit Advisory Committee

 Local Advisory Boards & Committees

 Primarily Technical Experts

 Other Interested Parties

The Lawrence-Douglas County Metropolitan Planning Organization (MPO) serves all of Douglas County, Kansas including Baldwin City, Eudora, Lawrence, and Lecompton (see Figure 2).

Lecompton 24 -40 **59** 40 (10)Lawrence **Eudora** 59 **56 Baldwin City** (33) Urbanized Growth Area County Limits/ Miles MPO Boundary Source: Lawrence-Douglas County MPO (2018) FHWA Adjusted Urban Produced: Lawrence-Douglas County MPO (2018) City Limits

Figure 2: Lawrence-Douglas County Metropolitan Planning Area (MPA)

The map is produced "as is" without warranty or any representation of accuracy, timeliness or completeness. The burden for determining accuracy, completeness, timeliness, merchantability and fitness for or the appropriateness for use rests solely on the requester. The City of Lowence makes no warranties, express or implied, as to the use of the mains. There are no implied warranties of merchantability or fitness for a particular purpose. The requester acknowledge and complete the implications of the map, including the fact that the map is dynamic and is in a constitution to state of mains.

What is a TIP?

The Transportation Improvement Program (TIP) documents how the region prioritizes the limited transportation resources available among the various needs of the region.

Statewide Transportation Improvement Program

The STIP is the State's equivalent of an MPO's TIP. It includes all federally funded transportation projects in the state. Projects in the metropolitan areas are included by reference to the relevant STIP.

The TIP is a short-range, multi-year listing of federally funded and/or regionally significant improvements to the region's multimodal transportation system. Projects in the TIP are designed to implement the Metropolitan Transportation Plan (MTP). The TIP must be fiscally constrained and include only projects for which funding has been identified using existing or reasonably available revenue sources. The TIP must be updated at least once every four years, on a schedule compatible with the Statewide Transportation Improvement Program (STIP). The Lawrence-Douglas County TIP is updated every two years.

The TIP and T2040

The TIP and Transportation 2040 (the region's Metropolitan Transportation Plan (MTP)) are linked. Transportation 2040 (T2040) is the long range transportation vision; while the TIP is the short range implementation list. For projects to be included in the TIP, they must be consistent with T2040. This ensures projects are implementing the MPO's vision for a healthy, safe, and efficient transportation system, which adequately serves Lawrence, Eudora, Baldwin City, Lecompton, and unincorporated areas of Douglas County. Community input led to the development of the T2040 vision, goals, priorities, and objectives (Table 1). These goals are implemented by the TIP. The Tracking Performance Measures section provides further details on how the two documents are linked.

Table 1: Transportation 2040 Goals and Objectives

		Goals	Objectives
Access & Choices		Enhance Transportation options and choices for improved system	Improve regional connectivity (urban/rural) of all modes of the transportation networks including access to desired destinations.
		performance	Enhance transit service, amenities and facilities.
Mobility & Prosperity		Efficient movement of people, goods, and freight	Implement strategies that address system performance & improve reliability, capacity and competitiveness for regional freight.
Preservation,	4	Prioritize preservation, safety, and security of the	Support projects and policies that improve safety and security.
Safety, & Security	9	transportation network	Preserve and enhance transportation infrastructure and assets.
Sustain &	P	Minimize adverse social, economic, and environmental impacts	Promote density to reduce transportation costs & reduce environmental impacts of transportation.
Enhance		created by transportation	Reduce single occupancy vehicle trips.

TIP Public Involvement Process

The MPO's Public Participation Plan (PPP) requires a new TIP to undergo a 30-day comment period and amendments require a 15-day public comment period.² The full draft TIP is available on the MPO website (www.lawrenceks.org/mpo/tip) and a printed copy is available at Lawrence City Hall, Lawrence Public Library, Eudora Public Library, Baldwin City Public Library, and Lecompton City Hall. The public is notified of the opportunities to review the draft TIP through a local newspaper advertisement, notification by email, and by

¹ https://lawrenceks.org/mpo/t2040

² Details about the public participation process for the approval and amendment of the TIP can be found at www.lawrenceks.org/mpo/public participation.

staff announcements that the draft TIP is available for comment at MPO meetings. These strategies are consistent with the PPP, which addresses how everyone will be engaged in the planning process.

Public comments are posted online at www.lawrenceks.org/mpo/tip/comments and are shared with TAC and the MPO Policy Board. MPO staff reviews the comments and responds to the comment submitter and posts the MPO response in conjunction with the comment online. If comments have direct, applicable action these changes are discussed with the project sponsor (if relevant) and are incorporated into the final draft document sent to the MPO Policy Board for approval. Appendix E contains the public involvement process utilized to develop this TIP.





- Public comment period --> MPO website posting and email notice about comment period is sent to e-subscription lists.
- Public review and comments are collected and revisions are made, as necessary. Comments and MPO responses are documented and posted online at: www.lawrenceks.org/mpo/tip/comments.
- TAC considers public comments, MPO responses, and reviews TIP draft making a recommendation to MPO Policy Board.
- MPO Policy Board considers public comments, MPO responses and takes action on the TIP.
- Once approved TIP is sent to KDOT for approval and inclusion in the Statewide Transportation Improvement Program (STIP) (www.ksdot.org/publications.aspp).
- The TIP is sent to FHWA and FTA for approval.
- Final approved document is posted online.

PROGRAMMING PROCESS

Legislative Requirement

The current federal surface transportation legislation is called the Fixing America's Surface Transportation (FAST) Act.³ It is a five year (FFY 2016-2020) transportation program signed into law by President Obama on December 4, 2015. MPOs are required to develop a TIP that is fiscally constrained and contain all capital and non-capital surface transportation projects within the MPO area that will receive federal funding, as well as other regionally significant transportation projects.⁴

Process for Including Projects in the TIP

The projects included in the TIP are drawn from the area's Metropolitan Transportation Plan (MTP), County and City governments' Capital Improvement Plans (CIP), as well as the State's Transportation Program known as T-WORKS. The MPO encourages Project Sponsors to use the factors in Appendix A to determine which projects should be prioritized for funding and inclusion in the TIP. Project Sponsors submit projects to the MPO staff for inclusion in the TIP and MPO staff work with TAC members to ensure that the projects are regionally significant and are consistent with the MTP.⁵ Figure 4 displays the process for including projects in the TIP.

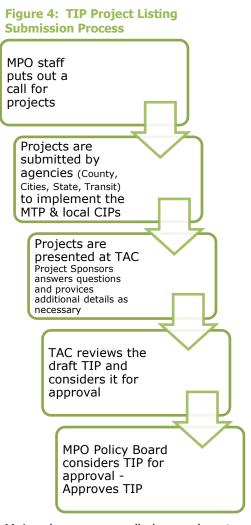
The transit and paratransit projects programmed in the TIP also go through a project selection process. Lawrence Transit staff works with the MPO, FTA, KDOT, and University of Kansas - KU On Wheels (KUOW) staffs to plan and program projects in the TIP that address transit needs and issues identified in the MTP. The KDOT-Office of Public Transportation in consultation with the Urban Corridor Coordinated Transit Council makes the selection of paratransit projects to include in the TIP.

This TIP document contains projects for Lawrence Transit that collectively constitutes the Program of Projects (POP) for Lawrence Transit. This list of transit items is a prioritized list of projects used by the Lawrence Transit staff and reviewed by FTA officials. Approval of the TIP includes the approval of the POP for Lawrence Transit. The public involvement procedures used for TIP development and amendments are used to satisfy the POP requirements for FTA Section 5307 funding.

Revisions to the TIP

There are times when information about projects needs to be adjusted. Minor changes to project information are called revisions and are administrative actions with no public involvement require

and are administrative actions with no public involvement required. Major changes are called amendments and require public involvement.



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³ The FAST Act was created as Public Law 114-96. The official legislation can be accessed at https://www.gpo.gov/fdsys/pkg/PLAW-114publ94.pdf. The official legislation can be accessed at https://www.gpo.gov/fdsys/pkg/PLAW-114publ94.pdf.

⁴ In accordance with United States Code Titles 23 and 49, the TIP document must outline at least a four-year program of: 1) All federally funded priority transportation projects, and 2) All regionally significant priority projects, regardless of funding source.

⁵ An electronic TIP submission form was developed as part of the FFY19 TIP development process. It can be accessed at: https://lawrenceks.org/mpo/tip/submit

Formal Amendments

Amendments to the TIP often consist of major changes to total project cost. Those types of fiscal changes may have impacts on the ability of the TIP and/or the MTP to remain fiscally constrained. The following types of project changes are always handled as TIP amendments:

- Addition or deletion of a project within the first four (4) years of the TIP (federal regulations require this part of the TIP to show fiscal constraint)
- Total costs of a project and/or funding amounts for a project listed in the TIP increase by more than 20% of the total project cost
- Change to a funding source (such as changing from state funding to federal)
- Change to a project scope and/or location (project limits)

Administrative Revisions

Administrative revisions include all revisions that are not formal amendments. These revisions usually involve, but are not limited to:

- Obvious minor data entry errors or editing corrections to text, map, and/or other graphics
- Splitting or combining projects (project scopes and costs cannot change)
- Changes or clarifying elements of a project description (with no major changes in scope)
- Change in funding program or category (such as changing from STP to HSIP funding)
- Shifting funds between a singular year
- Change of program year of project within the four-year fiscally constrained TIP
- Minor change of less than 20% of total project cost

In processing administrative revisions MPO staff will:

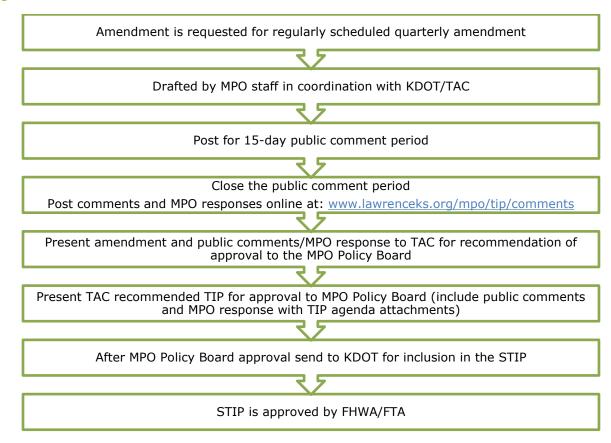
- Enter the requested revision into the project database.
- Prepare and publish an updated TIP and post it online.
- Notify the Kansas Department of Transportation of the modifications revisions.
- Prepare a summary of the revision to be presented at the next scheduled MPO Technical Advisory Committee and Policy Board meetings (no formal action required).

Administrative Revisions require no public comment.

Figure 5 displays the TIP amendment process. Amendments to the TIP will be drafted by the MPO staff in cooperation with KDOT staff and TAC members as needed and/or scheduled. The draft TIP amendment will be presented to the TAC for review and approval before sending the amendment to the MPO Policy Board for approval.

After the MPO Policy Board approves the amendment the MPO staff will forward the amendment to KDOT for their review and inclusion in the Statewide Transportation Improvement Program (STIP). The TIP is included in the STIP by reference so an amendment to the TIP also becomes an amendment to the STIP. Then the STIP is approved by FHWA/FTA.

Figure 5: Amendment Process



Amendment Public Process

TIP amendments must be posted for public review and comment, the MPO staff must collect and review any public comments and share those comments with the TAC and MPO Policy Board to address and/or incorporate them, as necessary, before TIP approval.⁶

A minimum 15-day public comment period is required for the proposed amendments are which is posted on the MPO web page. The MPO staff also places a paper copy of all TIP amendments in a binder kept at the front counter of the MPO Office for public review and comments. In addition, all TIP amendment announcements, including the printed advertisement in the newspaper, have the phone number, mailing address, and email address of the MPO staff listed on them so that anyone with questions or comments about the amendment can contact the staff to discuss it. Following the required 15-day public comment period, all comments will receive a response, either individually or in a summary form. The comments and responses will be posted at www.lawrenceks.org/mpo/tip/comments prior to distributing the TAC agenda packet (one week before the TAC meeting). The MPO staff presents these public comments and the staff response to the TAC and the MPO Policy Board before they discuss approving the amendment. There is no requirement for a public hearing.

Amendment Schedule

In order to facilitate the process of making TIP amendments, the MPO has a TIP amendment item on the TAC and Policy Board meeting agenda once each quarter (Table 3). These dates to consider TIP amendments will be coordinated with the KDOT calendar for making changes to the Statewide Transportation Improvement Program (STIP). A similar schedule will be followed for the other years covered by this TIP.

⁶ An appropriate level of public involvement activities are outlined in the latest MPO-approved Public Participation Plan found online at www.lawrenceks.org/mpo/public participation.

Table 3: FFY2019 Quarterly Schedule for TIP Amendments

TIP Amendment Request Made to MPO Staff	Public Review Period	TAC Approval	MPO Approval	STIP Approval
August-31	9/6/18 to 9/21/18	October 2, 2018	October 18, 2018	November 2018
January-04	1/10/19 to 1/25/19	February 5, 2019	February 21, 2019	March 2019
March-01	3/7/19 to 3/22/19	April 2, 2019	April 18, 2019	May 2019
July-05	7/11/19 to 7/26/19	August 6, 2019	August 15, 2019	August 2019

These dates are approximate and subject to change following discussions between MPO and KDOT staffs and/or discussions at the Technical Advisory Committee (TAC) meetings.

FISCAL CONSTRAINT

Project Funding

Projects are funded from several sources. Street and highway projects can be financed entirely by State and/or local funds or by any combination of federal, state, and local funds. The Fixing America's Surface Transportation (FAST) Act provides federal-aid to state and local units of government for surface transportation projects.

The use of Federal Transit Administration (FTA) funds are allocated to transit operators by formulas through the FTA Region 7 Office in Kansas City and through the KDOT Public Transportation Programs Office of Public Transit in Topeka. State transit funds from the T-WORKS Program flows through KDOT. These funds are utilized for the operations of Lawrence Transit and various paratransit operations in the region.

KDOT administers Federal Highway Administration (FHWA) funding to local governments. The Surface Transportation Block Grant (STBG) Program and Highway Safety Improvement Program (HSIP) categories are the main federal categories or programs that cities receive through KDOT. The STBG Program combines the long-standing Surface Transportation Program and the Transportation Alternatives Program, now known as TA Set-Aside. Some of these funds provide annual allocations to cities while others require local governments to apply for project specific funding. The TA Set-Aside funds have helped build pathways, do historic preservation projects, and other projects outside the scope of traditional road and bridge improvements. They provide funding for former Transportation Alternatives (TA) program and the Safe Routes to Schools (SRTS) programs.

All of the estimated amounts of transportation project funds are included in Table 10: Estimated Revenues and Expenditures (located in the Demonstration of Fiscal Constraint section of this chapter). The estimates of reasonably expected funding levels based on Transportation 2040 historic averages are compared to the levels of federal, state, and local funding for transportation facilities and services that are requested by KDOT and local governments for inclusion in the TIP. Comparing these expected funding levels and funding request levels allows the MPO to determine if the TIP is fiscally constrained.

Federal Funds

The federal funding for road and bridge projects in the region is generally limited to formula funding levels set by the USDOT and KDOT. Those levels have been relatively steady over the last few years with Douglas County receiving about \$500,000 and the City of Lawrence receiving about \$1.2 million annually in federal aid for roads and bridges. The three smaller cities in Douglas County (Lecompton, Eudora, and Baldwin City) have small public works departments, thus large road or bridge projects are often managed by Douglas County or KDOT.

Discretionary funding for TA Set-Aside program projects is also available on a more sporadic competitive basis. This funding is not guaranteed in any given year, but our region has received some funding and expects to FFY 2019 TIP

receive more in the foreseeable future. These funding levels have more uncertainty and therefore, projects must have awarded funding to be included in the TIP. If and when local governments in Douglas County are awarded funding from these discretionary programs the MPO will amend the TIP to add that funding and those projects in a timely manner.

State Funds

State funds used in Douglas County for road and bridge projects are mostly limited to KDOT facilities and projects. The level of KDOT funding expended in the region varies greatly by year due largely to how much work KDOT does on the area's major highways. Recently KDOT spent large amounts of funding to build the South Lawrence Trafficway (new K-10 alignment), and to build a new interchange along K-10 at Bob Billings Parkway/N 1500 Road. All of those projects are KDOT administered projects on KDOT routes, which typically do not significantly impact the local governments' budgets for transportation improvements (although the City of Lawrence/Douglas County contributed \$1,000,000 for pedestrian and bicycle facility improvements to the K-10/Bob Billings Parkway interchange). Some other smaller amounts of State funding are used for local projects, such as the occasional purchase of a paratransit van with state money or a state contribution to a local bridge project.

For most local governments in the region the main KDOT funding role has been to provide federal aid to local projects, not to provide large amounts of state aid to local transportation improvements. However, the one example in the region where the state funding of a local project does make a routine and significant difference in the local budget process is state transit operating assistance. Lawrence Transit receives about \$1.1 million in state operating and capital assistance annually which is an important part of their budget.

KDOT does not program projects in their budget documents or ask for projects to be added to the TIP unless a specific identified and reasonable funding source is identified. Therefore, KDOT requests for TIP actions represent a fiscally constrained condition for state funded and/or managed projects.

Local Funds

City of Lawrence

For Lawrence most of that federal funding has come recently in the form of Surface Transportation Program (STP) or Highway Safety Improvement Program (HSIP) funding and has remained about the same each year at about \$1.2 million.

The ten year sales tax to improve roads/infrastructure and transit service which was approved in November 2008 was reapproved by Lawrence voters in November 2017. This continuation of sale taxes included 0.3% dedicated to roads and infrastructure and 0.2% dedicated to funding transit service (Table 4).

Table 4: Lawrence Sales Tax for Improvement of Roads and Transit Service Projections (Shown in \$1,000s)

		Pro	ojected Collection
Source	Tax Percentage		in 2018
Roads/Infrastructure	0.30%	\$	5,582
Transit Service	0.20%	\$	3,514
	Total	\$	9,096

These sales taxes will expire in April of 2029; new referendums will need to be approved to ensure this funding is available in the future. With the addition of those taxes the City has a local dedicated funding source for road and transit improvements that has made funding more predictable. The City is utilizing the sales tax revenue to design and program some large road projects that were not financially feasible prior to the tax. Some projects are now funded with this sales tax revenue and some are still funded with a combination of federal aid and local matching funds.

City of Eudora, Baldwin City, and City of Lecompton

The City of Eudora became a second class city under Kansas statutes in 2010. With the designation, Eudora now receives an annual distribution of STP funding through KDOT. This amount of federal funding is typically small (less than \$60,000 on average).

Baldwin City, Eudora and Lecompton have used federal funding sporadically and worked with Douglas County staff to administer major road and bridge projects using federal aid. This cooperation between the small cities and the County for the use of federal aid is expected to continue through the life of this TIP.

Douglas County

Douglas County receives obligation authority for STP funds from KDOT. Douglas County has elected to exchange their available obligation authority of federal funds for state funds at an exchange rate of \$0.90 in state funds for every \$1.00 in federal obligation authority, per KDOT policy.

On average over the last five years, the County received \$485,000 in KDOT's federal funds exchange program, and \$523,000 in federal sources such as Federal Lands Access Program, U.S. Fish and Wildlife Service, and STP funding.

The County can also apply for TA Set-Aside funds if it chooses to do so. The County does not operate transit service and does not receive federal or state transit funding.

Douglas County has a CIP that is updated on a regular basis and other sources of local funds. Over the last five years, local funding averages \$8.5 million a year. However, due to planned mental health initiatives and expansion of the jail, the Board of County Commissioners has reduced the annual CIP allocations for roads and bridges by \$1 million for 2019. This annual reduction is anticipated to continue through 2023. The County programs its projects in their CIP and as needed the County staff coordinates its capital planning with the MPO staff for TIP development and changes.

Transit and Paratransit Funds

The public transit operations in Lawrence are composed of a mix of services operated by the Lawrence Transit and the University of Kansas service called KU on Wheels (KUOW). KUOW transit operations are primarily supported by student fees. The City transit service uses state operating assistance, state capital assistance, federal capital assistance, and federal operating assistance to keep buses running. Lawrence also uses local sales taxes to pay for transit. In recent years, Lawrence has used about \$2.1 million annually in flexible federal formula Section 5307 subsidies to provide transit services. This annually allocated funding can be used for capital projects (e.g., buying new buses), but most of it has been used for operations.

Capital assistance levels are typically much more unpredictable than operating assistance, but when the transit capital funding will be needed is fairly predictable because it is based on the life span of buses. That creates a dilemma for transit operators who in the past relied heavily on large discretionary grants from the FTA for bus fleet replacements. Now those large grants are gone and our transit operators are adjusting to buying only a few new buses at a time when funding is available instead of buying many buses on one large grant funded order.

Lawrence Transit uses a relatively constant mix of federal and local funds for operations. Under the State T-WORKS Program some state operating assistance is received each year.

The paratransit providers in the region provide all or most of their own funds to operate their services, and in some cases they use FTA grants for vehicle purchases. KDOT also funds paratransit vehicles in the region. As part of these vehicle purchases the agency requesting the federal funds is required to provide a local match, and those vehicles are programmed in the TIP.

Operation and Maintenance (O&M) Funding

The fiscal constraint analysis looks primarily at capital projects (e.g., building roads and bridges, buying buses, etc.); however, that is not a complete picture of funding for the region's multimodal transportation system. The funds needed for operating and maintaining transport facilities and services also has to be reviewed. An adequate level of Operations & Maintenance (O&M) funding needs to be budgeted to maintain the federal-aid highways in the region. Shortchanging the O&M budgets to make the road improvement projects fiscally feasible is not appropriate. This funding is divided into Roads/Bridges and Transit.

Road and Bridge Operations and Maintenance Funding Estimates

The expenses for O&M work items are usually paid for by the local government that owns and operates the road and the utility providers that use the road rights-of-ways.

In the case of major highways, KDOT is the owner of the road and maintains those facilities. The major exception to this is the Kansas Turnpike/I-70 which is owned and operated by the Kansas Turnpike Authority. Some of the state highway mileage in Lawrence is provided on City streets through a connecting link agreement between KDOT and the City. That agreement includes quarterly payments from KDOT to the City to pay a

share of the maintenance costs for those route segments carrying a state highway. KDOT plays a role in the maintenance of some major roads in the region (approximately \$0.744 million per year), but major highway mileage comprises a small percentage of total roadway mileage. Most of the road mileage in Douglas County is owned by the County, City or Township Governments that levy local property taxes and sometimes other taxes to pay for road maintenance and operations.

The cities and county also receive a portion of the state gas tax collected in Douglas County. This amount of funding is anticipated to continue during

O&M consists of routine things such as pothole patching, minor repairs to pavements and curbs, snow removal, striping and marking, utility work and patching, electrical repairs, tree trimming, mowing, signal repairs, sign replacement, bridge maintenance, and other minor work tasks.

the years covered by this TIP. The state supplied pass through gas tax funding is supplemented by local government funds to make up the bulk of Lawrence and Douglas County roadway O&M budgets.

Between 2012-2016, the City of Lawrence had an O&M budget for its road system of \$8.7 million, on average. Those costs were paid for with \$2.6 million of state gas tax funds, \$1.2 million of local tax sources including the 2008 approved sales tax increase dedicated to infrastructure improvements, and \$4.9 million from the CIP and budget. For 2012-2016 on average, the roadway O&M budget for Douglas County was approximately \$5.6 million with approximately \$1.7 million of that total coming from the state gas tax funds and the other \$3.9 million from County tax sources. It is expected that the local governments in the region will continue to fund their O&M budgets in order to adequately maintain their transportation infrastructure during this TIP period. Table 5 shows the KDOT, Douglas County, and the City of Lawrence O&M expected cost per lane mile.

Table 5: Road and Bridge O&M (Shown in \$1,000s)

	KDOT	County*	Lawrence	Total
Base Cost Per Lane Mile	\$ 2.73	\$ 12.03	\$ 10.84	
Lane Miles	234	500	862	1,596
2019	\$ 638	\$ 6,018	\$ 9,348	\$ 16,003
2020	\$ 660	\$ 6,228	\$ 9,675	\$ 16,564
2021	\$ 683	\$ 6,446	\$ 10,014	\$ 17,143
2022	\$ 707	\$ 6,672	\$ 10,364	\$ 17,743
Total	\$ 2,688	\$ 25,364	\$ 39,402	\$ 67,453

^{*}Does not include Township roads or road maintenance funds, but County maintenance costs does include bridges and large culverts on township roads that are maintained by the County.

Transit Operations and Maintenance Funding Estimates

Transit operations are funded with a mix of local, state, and federal funds. The transit system in Douglas County is a coordination of services owned and operated by the City of Lawrence, the University of Kansas, social service agencies that run paratransit vehicles, and Johnson County Transit that operates a commuter bus service called the K-10 Connecter, which traverses between Lawrence and locations in Johnson County. K-10 Connector funding is programmed in the TIP produced by the Mid-America Regional Council (MARC), which is the MPO for the Kansas City area.

Lawrence Transit

Lawrence Transit service uses federal, state, and local funds for operating and routine maintenance expenses for their fixed-route and complementary paratransit services. Lawrence Transit needs to pay for its services when they are rendered (i.e., when the buses are rolling, burning fuel and labor costs are incurred) by maintaining a cash flow to pay for its vendors and staff as they work. Unlike a road or a bridge that can be bonded for twenty years and paid for over time, transit operations are typically not paid for with debt service. For 2018, Lawrence Transit had an O&M budget of approximately \$8.2 million which was funded with \$2.1 million of federal aid, \$1.7 million of state aid, \$4.4 million of local funds. Lawrence Transit programs \$1 million every other year to acquire rolling stock. Additionally, \$5 million of the local funds is programed towards a multimodal facility and will be utilized once a location is selected. These levels of O&M expenses and revenues (without the \$5 million multimodal facility) are anticipated to continue through the four-year fiscally constrained period (2020-2022), as shown in Table 6.

Table 6: Lawrence Transit O&M (Shown in \$1,000s)

FFY	2019	2020	2021	2022	Total
Total O&M	\$ 7,375	\$ 8,467	\$ 7,561	\$ 8,656	\$ 32,057

^{*}Based on financial information from Transportation 2040

Operations and maintenance funding for Lawrence Transit is shown in Table 10: Estimated Revenues and Expenditures (located in the Demonstration of Fiscal Constraint section of this chapter).

The O&M costs are deducted from the estimated revenues; therefore, funding for O&M projects are not available other projects and the TIP is fiscally constrained.

University of Kansas (KU on Wheels) Transit Funding

The University of Kansas also provides transit services that are available to the general population as well as KU students and staff. Funding for the KU on Wheels system includes a considerable amount of funding that supports fixed route transit in Lawrence. The KU transit funding information listed in Table 7 gives a more complete and realistic account of the size and costs of the transit system in Lawrence.

The KU on Wheels (KUOW) and the Lawrence Transit services are integrated into one route and schedule system and both of these operations accept each other's bus passes. Even though these two services are coordinated into one route map and schedule book, only Lawrence Transit receives FTA funding. The KUOW operations are expected to maintain the KUOW transit service at current levels through the years covered by FFY 2019 TIP

this TIP. The KUOW part of the public transit system in Lawrence is fiscally constrained by the revenues provided by fees that support it.

Table 7: KU on Wheels (KUOW) O&M (Shown in \$1,000s)

FFY	2019		2020	2021	2022	Total		
Total O&M	\$	4,957	\$ 5,031	\$ 5,107	\$ 5,184	\$	20,279	

^{*}Based on financial information from Transportation 2040

Paratransit

The paratransit providers in the region mostly provide their own funds to operate their services, but in some cases receive a small amount of state operating subsidy from KDOT. Typically, this state operating assistance is only a few thousand dollars per year for each operator. Most of the federal and state aid to paratransit is for vehicle purchases. The MPO staff works closely with the KDOT transit staff, the Regional Transit Advisory Committee (RTAC), and the Urban Corridor Coordinated Transit Council members to keep informed about the status of paratransit operations and funding issues. Those paratransit issues are discussed in more detail in the Coordinated Public Transit-Human Services Transportation Plan (CPT-HSTP).⁷

Taking into account all transit expenses in the region including Lawrence Transit, KU on Wheels, and the various paratransit providers the regional transit O&M is close to \$13 million in 2019 (Table 8).

Table 8: Regional Transit O&M (Shown in \$1,000s)

FFY	2019	2020	2021	2022	Total
Total O&M	\$ 12,820	\$ 13,993	\$ 13,170	\$ 14,350	\$ 54,333

^{*}Based on financial information from Transportation 2040

Year of Expenditure (YOE) Inflation Factor

In addition to having a clearly identified source of funding for each roadway, bridge, transit, and enhancement project listed in the TIP, the project sponsor must also present their project costs in year of expenditure (YOE) dollars. This allows the project estimates to take into account inflation and should make them more realistic than using constant dollars. This fiscal analysis uses an annual inflation factor of 1.5% (which matches the T2040 Inflation Factor) for all TIP projects to determine the estimated costs in the year of expenditure. This inflation factor was developed by KDOT in 2012 for use with federal aid projects. TAC and MPO Policy Board members agreed to the YOE inflation rate.

Demonstration of Fiscal Constraint

TIPs are required to have a four year fiscally constrained program of projects. Fiscally constrained means enough financial resources are available to fund projects listed in the TIP. Fiscal constraint also makes good sense.

The MPO accounts for O&M expenditures "Off the Top" from available funding before projects are programmed (Table 9). This ensures there is enough funding to operate, maintain, and preserve the existing transportation system, which is a high priority of T2040.

⁷ Access this plan at https://www.lawrenceks.org/mpo/transit.

Table 9: Funding Available for Projects after Accounting for all O&M Expenditures (in \$1,000s)

	F	FY 2019	F	FY 2020	F	FY 2021	F	FY 2022	Total
Anticipated Funding	\$	72,252	\$	73,727	\$	74,389	\$	83,931	\$ 304,299
Anticipated O&M Expenditures	\$	28,823	\$	30,557	\$	30,314	\$	32,093	\$ 121,786
Funding Available for Projects	\$	43,429	\$	43,170	\$	44,076	\$	51,838	\$ 182,513

This TIP document provides realistic cost and funding estimates for improvement projects in the first two years of the fiscal constraint period (2019 and 2020). Predicting the revenues which will be available and costs for projects in the second half of that period (2021 and 2022) are a more speculative exercise. The MPO utilized Transportation 2040's fiscal analysis to determine federal revenues. This was developed by creating a historic average based on funding levels from 2012–2016. A 1.5% inflation factor was applied to the average to determine future funding amounts. The MPO has assumed these funding levels for federal funding will remain in place through 2022. The Funding Summary in Table 10 show the level of projected funding from reasonable sources and the total level of project funding programmed in this TIP are balanced and this TIP is fiscally constrained. The fiscal breakdown by funding source for all roadway and transit projects listed in the 2019-2022 TIP are shown in the table. The projects are shown by year and funding source.

Table 10: Funding Summary (in \$1,000s)

		Ant	cicipated F	und	ing (in tho	usa	nds)					
F	unding Source	F	FY 2019	F	FY 2020	F	FY 2021	F	Y 2022	Total		
it	Federal	\$	2,211	\$	2,212	\$	2,213	\$	2,215	\$	8,851	
Transit	State	\$	712	\$	713	\$	713	\$	714	\$	2,852	
Ĕ	Local	\$	10,274	\$	10,849	\$	11,027	\$	13,913	\$	46,063	
Si T	Federal	\$	1,961	\$	1,989	\$	2,018	\$	2,436	\$	8,405	
Non- Transit	State	\$	5,370	\$	3,975	\$	4,035	\$	8,095	\$	21,475	
- F	Local	\$	22,901	\$	23,432	\$	24,070	\$	24,465	\$	94,868	
	Transit Total	\$	13,197	\$	13,774	\$	13,954	\$	16,842	\$	57,766	
No	Non-Transit Total			\$	29,396	\$	30,122	\$	34,997	\$	124,747	
	Grand Total	\$	43,429	\$	43,170	\$	44,076	\$	51,838	\$	182,513	

Anticipated funding is based on the revenue assumptions in Transportation 2040. Local transit funds include KU on Wheels funding. 1.5% growth is applied to the funding and the 2017 Lawrence sales tax referendum (funds roads/infrastrucure and transit service) passed, which provides local funding until 2028.

	Est	imated Exper	ndit	ures by Ye	ar a	and Fundin	ıg S	ource (in t	hou	sands)		
F	unding So	urce	FI	FY 2019	FI	FY 2020	F	FY 2021	FF	FY 2022	Total	
	al.	FTA 5307	\$	2,447	\$	2,468	\$	2,591	\$	2,720	\$ 10,226	
sit	Federa	FTA 5310	\$	78	\$	-	\$	-	\$	-	\$ 78	
Transit	Fe	FTA 5311	\$	86	\$	60	\$	-	\$	-	\$ 146	
	Sta	ate-PT	\$	1,259	\$	1,259	\$	1,259	\$	-	\$ 3,777	
	L	ocal	\$	7,877	\$	8,931	\$	7,064	\$	7,239	\$ 31,111	
	<u>s</u>	CDBG	\$	303	\$	-	\$	-	\$	-	\$ 303	
	Funds	HRRR	\$	36	\$	-	\$	-	\$	-	\$ 36	
ي	Federal Fu	HSIP	\$	500	\$	500	\$	500	\$	500	\$ 2,000	
ans		era	NHPP	\$	-	\$	-	\$	_	\$	_	\$ -
Non-Transit		STP	\$	-	\$	-	\$	-	\$	-	\$ -	
Ö	ш.	TA	\$	394	\$	1,344	\$	-	\$	-	\$ 1,738	
Z	S	tate	\$	5,815	\$	984	\$	2,500	\$	2,500	\$ 11,799	
	State AC	Conversion*	\$	(500)	\$	(500)	\$	(500)	\$	(500)	\$ (2,000)	
Local		\$	4,988	\$	12,330	\$	10,500	\$	13,275	\$ 41,093		
		Transit Total	\$	11,747	\$	12,718	\$	10,914	\$	9,959	\$ 45,338	
	Non-	Transit Total	\$	11,536	\$	14,658	\$	13,000	\$	15,775	\$ 54,969	
		Grand Total	\$	23,283	\$	27,376	\$	23,914	\$	25,734	\$ 100,307	

^{*}State AC Conversions are negative because the State is receiving federal reimbursement for funds spent in previous years (as noted in the project listing).

TRACKING FEDERAL PERFORMANCE MEASURES

The Moving Ahead for Progress in the 21st Century Act (MAP-21) and Fixing America's Surface Transportation (FAST) Act requires Performance-Based Planning and Programming (PBPP) in the development of the MTP and TIP. According to MAP-21, "Performance management will transform the Federal-aid highway program and provide a means to the most efficient investment of Federal transportation funds by refocusing on national transportation goals, increasing the accountability and transparency of the Federal-aid highway program, and improving project decision-making through performance-based planning and programming."

Transportation 2040 (T2040) is the region's MTP. The TIP acts as the implementation arm of T2040. T2040 has 26 performance measures: 12 federally mandated and 14 community established. The T2040 performance measures promote the overarching goals shown below. The MPO uses the best available information provided by TIP project sponsors to evaluate progress on plan goals and to track project implementation's impacts on achieving performance measure targets. Figure 6 illustrates which T2040 goals the TIP's projects are implementing. As shown, "Prioritizing preservation, safety, and security of the transportation network" is the most frequently addressed T2040 goal by the projects in this 2019-2022 TIP.

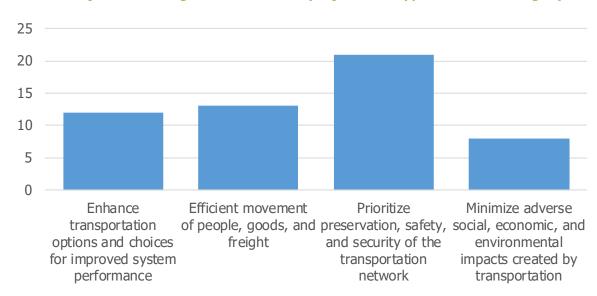


Figure 6: TIP Projects addressing T2040 Goal Theme (Projects can support more than one goal)

PBPP is accomplished by tracking performance measures, setting data-driven targets for each measure, and selecting projects to help meet the targets. Transit State of Good Repair measures include the Useful Life Benchmark (ULB) for revenue and non-revenue vehicles by auto type including full-sized buses, cutaway buses, vans, minivans, SUVs, and automobile. The percentage of assets with a condition rating below 3 on the FTA Transit Economic Requirements Model (TERM) scale is another federal performance measure, but there are no federally funded transit facilities in the MPO area. Reliability performance measures relate to person-miles traveled on the Interstate and Non-Interstate NHS, as well as truck travel time reliability on the Interstate. This data all comes from NPMRDS RITIS. NHS bridge condition and Interstate and Non-Interstate NHS pavement condition data is provided by KDOT. Safety performance measures reflect data for all public roads including the number of fatalities, rate of fatalities per 100 million Vehicle Miles Traveled (VMT), number of serious injuries, rate of serious injuries per 100 million VMT, and number of non-motorized fatalities and serious injuries.

The targets listed in Tables 11 - 15 were set for the federal performance measures and were incorporated into T2040.

⁸ §1203; 23 USC 150(a) found at https://www.fhwa.dot.gov/map21/factsheets/pm.cfm

Table 11: L-DC MPO T2040 Transit State of Good Repair Targets (Useful Life Benchmark – ULB)

Transit State of Good Repair Performance Measures	Vehicle Type	L-DC MPO Target (2018-2022)
	Full-sized bus	25%
16) Revenue Vehicles	Cutaway bus	25%
10) Revenue Venicies	Van	25%
	Minivan	25%
	Minivan	75%
16) Non-Revenue Vehicles (Equipment)	SUV	75%
	Automobile	75%
Percentage of assets with a condition rating below 3 on the FTA Transit	There are	no federally funded
Economic Requirements Model (TERM) scale		facilities

Table 12: L-DC MPO T2040 Reliability Targets

Per	formance Measures	L-DC MPO Target (2018-2022)
	Percent of the Person-Miles Traveled on	
6)	the Interstate That Are Reliable (LOTTR)	99.0%
	Percent of the Person-Miles Traveled on	
	the Non-Interstate NHS That Are Reliable	
6)	(LOTTR)	99.0%
	Truck Travel Time Reliability (TTTR)	
8)	Index on the Interstate system	1.07

Table 13: L-DC MPO T2040 NHS Bridges by Deck Area Targets

Per	formance Measures	L-DC MPO Target (2018-2022)
	Percentage of NHS bridges by deck area	
14)	classified as in GOOD condition	93.2%
	Percentage of NHS bridges by deck area	
14)	classified as in POOR condition	0.0%

Table 14: L-DC MPO T2040 Interstate and Non-Insterstate NHS Pavement Condition Targets

Performance Measures	2018	2019	2020	2021	2022
18) Percentage of pavements of the Interstate System in GOOD condition	96.0%	96.0%	96.0%	96.0%	96.0%
18) Percentage of pavements of the Interstate System in POOR condition	0.0%	0.0%	0.0%	0.0%	0.0%
19) Percentage of pavements of the Non-Interstate NHS in GOOD condition	58.0%	58.0%	58.0%	58.0%	58.0%
19) Percentage of pavements of the Non-Interstate NHS in POOR condition	3.0%	3.0%	3.0%	3.0%	3.0%

Table 15: L-DC MPO T2040 Safety Targets

Safety	L-DC MPO 5-Yr Rolling Avg Targets			
Performance Measures	2018	2019	2020	
9) Number of fatalities	6.2	5.8	5.6	
10) Rate of fatalities per 100 million VMT	0.8	0.8	0.8	
11) Number of serious injuries	26.2	25.0	25.7	
12) Rate of serious injuries per 100 million VMT	2.6	2.4	2.4	
13) Number of non-motorized fatalities & serious injuries	7.2	7.1	7.8	

Project Evaluation

Through the TIP development process, project sponsors were asked a series of questions to determine if the project would assist the MPO in reaching our desired targets. There are 5.18 miles of new sidewalk and 5.4 miles of new bikeway associated with projects in the fiscally constrained portion of the TIP (2019-2022). However, there are additional local projects that improve sidewalk and/or bikeway that are not included in the TIP or have not currently determined how many miles of bikeway or sidewalk will be associated with projects. There are 20 (twenty) projects included in the fiscally constrained TIP. According to information provided by project sponsors, 25% of projects work to improve the useful service life of the combined transit fleet.

Four (4) out of five (5) transit projects will help address the transit useful life benchmark (Table 16). The projects include purchasing new transit vehicles and preventative maintenance on vehicles. By purchasing these new vehicles the overall percentage of vehicles at or exceeding the Useful Life Benchmark (ULB) will be reduced.

Table 16: Projects addressing L-DC MPO Transit Useful Life Benchmark Targets

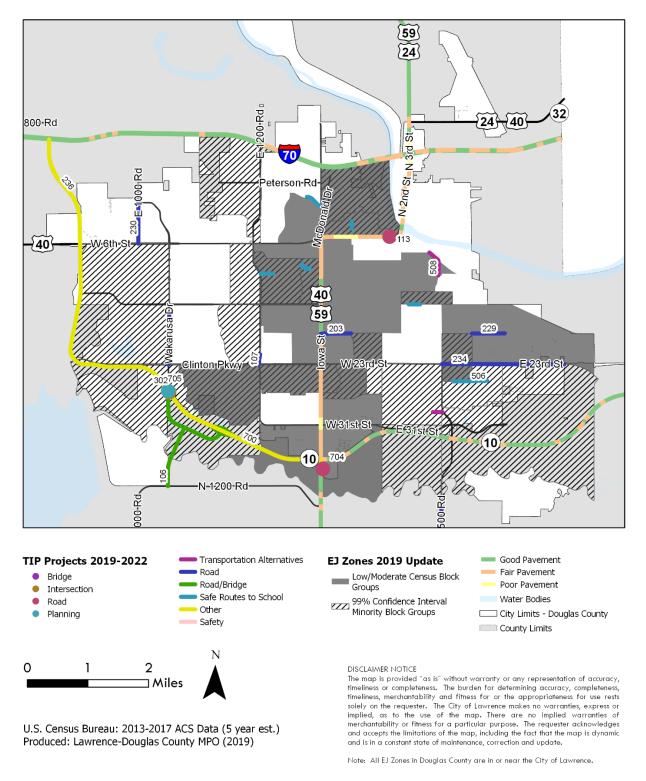
E	#	Project Name	How the Project Improves Transit ULB
Г	401	Independence Inc.: FTA 5311 Operating & Capital	Vehicle preventative maintenance
	403	Lawrence Transit Capital Assistance	Purchase paratransit vehicles
	412	Lawrence Transit Operating Funds	Vehicle preventative maintenance
	415	Bert Nash: FTA 5310 Capital Funds	Purchase ramp mini-van & full size van

There are no TIP projects that are part of the interstate system. Thus there are no specific projects working to achieve the person-miles traveled and truck travel time reliability targets pertaining to the interstate (T2040 PM 6 and 8). Furthermore, the data is provided as a set number by from NPMRDS RITIS and there is no way to determine which portion of the roadway is assigned a specific score. However, one project is part of the Non-Interstate NHS and will improve the person-miles traveled reliability (LOTTR) as the project will improve auto capacity by adding a right turn lane to US 40/6th St (#113).

There are 3 bridge projects in the TIP. None are NHS bridges. But improving the overall quality of bridges in Douglas County will assist in achieving the local performance measures of improving non-NHS bridges.

Sixty-five (65%) of non-transit projects identify improved pavement condition as a project characteristic. Only one of these projects is on the NHS (#113 – Lawrence CCLIP, US-40/Tennessee St. Intersection). Figure 7 displays TIP projects and NHS pavement condition. It assists in determining if projects will assist in improving "poor" pavement and achieving our pavement condition targets. The other projects which are not on the NHS will help achieve the local performance measures of improving non-NHS major roads (collector and above) pavement condition.

Figure 7: Projects and NHS Pavement Condition



Of the twenty (20) projects, all fifteen (15) non-transit projects have some component to address safety concerns. They are categorized as intersection projects, railroad projects, standalone bicycle/pedestrian projects, roadway projects including bicycle and pedestrian elements, and roadway projects. Table 17 displays the projects per category and describes the safety impact of the improvement.

Common Improvements That Impact Safety

Separated or dedicated facilities for pedestrians and bicyclists

According to a report from the Office of the New York City Mayor, when protected bike lanes are installed, injury crashes for all road users (motorists, pedestrians, and bicyclists) typically drop by 40% and by more than 50% in some locations. (Example: Project #506: Lawrence Safe Routes to School TA Phase 2)

Dedicated vehicle turning movements lanes

By creating two way left turn lanes, vehicles are separated from through traffic improving traffic flow and reduce the potential risk of rear end crashes. (Example: Project #110: 23rd St 2 way left turn lane)

Access management

Access management improves safety by separating access points so turning and cross movements occur at fewer locations. (Example: Project #234: 23rd Street Reconstruction: Haskell Ave to East City Limits)

Roundabouts

According to AASHTO Highway Safety Manual, installing roundabouts reduce the types of crashes where people are seriously hurt or killed by 78-82% when compared to conventional stop-controlled and signalized intersections. ¹⁰ (Example: Project #229: 19th Street Reconstruction: O'Connell Rd to Harper St)

Meeting design standards

The safety of the roadway can be improved by flattening roadside slopes and making geometric improvements to bring roadways up to design standards. (Example: Project #230: Queens Road, 6th to North City Limits)

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⁹ Howard Wolfson Memo on March 21, 2011 regarding Bike Lanes - http://www.nyc.gov/html/om/pdf/bike_lanes_memo.pdf

¹⁰ FHWA's Office of Safety - https://safety.fhwa.dot.gov/intersection/innovative/roundabouts

Table 17: Projects addressing L-DC MPO Safety Targets

	Railroad		
#	Project Name	Improvement with Safety Impact	
		This grouped project is for railroad safety projects that improve safety hazards at public railroad crossings. It targets known railroad safety issues	
600	Various Railroad Safety Projects in the Region	throughout the region.	

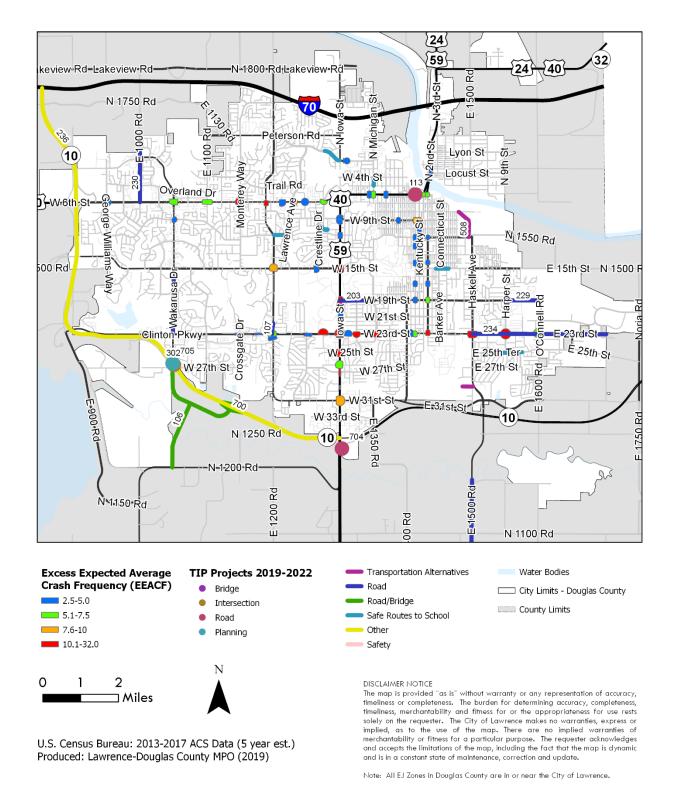
	Standalone Bicycle/Pedestrian				
#	# Project Name Improvement with Safety Impact				
5	D6 Lawrence Safe Routes to School TA Phase 2	Provides sidewalk for pedestrians along designated safe routes to school			
5	07 Various Lawrence Sidewalk/Bike/Ped/ADA Ramps Projects	Provide dedicated space for pedestrians and bicyclists			

Roadway				
# Project Name	Improvement with Safety Impact			
106 Wakarusa Drive Extension	KDOT's construction of interchange			
110 23rd St 2 Way Left Turn Lane	Installation of center turn lane			
113 Lawrence CCLIP: US-40/ Tennessee St. Intersection	Installation of turn lane			
134 US-40 Mil/Overlay: SN/DG CO to 0.15 Miles W of E50thRd	Improving deteriorating road surface and shoulder work			
	Replace 3 narrow drainage structures and flatten slopes near those			
208 Route 1055 at North 700 Curve	structures			
219 Rte 458 Improv., E1500 to E1600, & Rte 1055, N940 to N1000	Provide paved shoulders and flatten roadside slopes			
220 Route 1055 Improvements, N1000 to N1180	Provide paved shoulders and flatten roadside slopes			
248 Bridge 0964-1000 replacement	Replace with wider bridge			
249 Bridge 1267-1200 replacement	Replaces narrow bridge			

	Roadways Including Bicycle/Pedestrian Elements					
#	# Project Name Improvement with Safety Impact					
214	Wakarusa Reconstruction: Research Pkwy to 18th St	Sidewalks and bike facilites				
229	19th Street Reconstruction: O'Connell Rd to Harper St	Sidewalk, bicycle facilities, access mangagement, roundabout				
	Geometric improvements to meet collector street standards, sidewalks,					
230	230 Queens Road, 6th to North City Limits and bike facilities					
234	234 23rd Street Reconstruction: Haskell Ave to East City Limits New sidewalks, bike facilities, turn lanes, and access management					

In 2017, the MPO conducted a Crash Analysis and Countermeasure Identification Study to identify intersections with crash histories that exceed the average expected crashes, also known as the Excess Expected Average Crash Frequency (EEACF). The study evaluated countywide 2013-2016 crash data obtained from KDOT. Locations that had more than 2.51 crashes in excess of expected average crashes are shown in Figure 8. Of the 11,764 intersections evaluated, sixty-nine (69) exceed an average of 2.51 crashes. Fiscally constrained TIP projects address eight (8) of the sixty-nine (69) locations. Overall the project improvements are expected to improve safety.

Figure 8: Fiscally Constrained TIP Projects and Excess Expected Average Crash Frequency (EEACF)



Progress towards Targets

In summary, all non-transit projects have some component to improve safety. 12% of intersections that exceed an average of 2.51 crashes have projects in the fiscally constrained portion of the TIP working to achieve safety improvements. Eighty (80%) of transit projects are working towards improving the transit ULB. There FFY 2019 TIP

are no TIP projects as part of the interstate system. The MPO currently has a 100% reliability rating for the interstate and a 99.4% rating for the non-interstate NHS. The MPO has no reason to believe the reliability targets will not be met. There are no NHS bridge projects in the TIP and one NHS pavement project. The MPO uses information provided by project sponsors to determine if projects are working towards improving individual targets. Based on information available, the projects and/or ongoing operations are meeting the targets set in T2040.

Evaluating Performance over Time

Federal performance measures will be tracked annually in the performance measure report – T2040 Appendix F: System Performance Report. Performance measures will be evaluated as part of the annual report process and may be altered as the MPO Policy Board deems necessary (based on the Public Participation Plan (PPP)). Evaluating performance measures will be updated when a full TIP update is completed or if regulations have changed requiring an update.

ENVIRONMENTAL JUSTICE REVIEW

The Environmental Protection Agency (EPA) defines Environmental Justice as the "fair treatment for people of all races, cultures, and incomes, regarding the development of environmental laws, regulations, and policies." Environmental Justice (EJ) is a federal requirement that projects using federal funds be selected and distributed fairly to all people regardless of income or race and that all people have equal access to the benefits afforded by federally funded projects as well as equal access to the decision-making process for the selection of those federal projects. ¹¹ This concept is conveyed in the three Environmental Justice Principles shown in Figure 9.

Figure 9: U.S. DOT Environmental Justice Principles

To avoid, minimize, or mitigate disproportionately high and adverse human health and environmental effects, including social and economic effects, on minority populations and low-income populations.

To ensure the full and fair participation by all potentially affected communities in the transportation decisionmaking process.

To prevent the denial of, reduction in, or significant delay in the receipt of penefits by minority and lowincome populations.

Read about how the MPO is providing access to the transportation planning process at www.lawrenceks.org/mpo/public participation.¹²

Methodology

In response to EJ regulations the MPO developed a process to assess the impact of transportation planning processes regarding the TIP on the target populations. The results of the analysis in this EJ review provide insight to the MPO's commitment to achieve the US DOT EJ Principles.

Define Target Populations and Thresholds

Low-income and minority populations were identified in the MPO area. This is done by utilizing Census block groups and 2013-2017 American Community Survey (ACS) 5-year estimate data. Block groups are determined to meet the EJ threshold if they meet either of the criteria listed below.

<u>Low/Moderate Household Income Population, by 2010 Census Block Groups (vintage 2018 TIGER/Line Shapefiles and April 2019 income data)</u>

The threshold for low/moderate household income was 51 percent or more of the population residing in households earning less than 80 percent of the area's median income. The City of Lawrence Neighborhood Resources Division of the Planning and Development Services Department currently uses this information to identify areas within the community that have higher concentrations of low and moderate income residents. This data is updated annually. Various housing rehabilitation program funds and Community Development Block Grant (CDBG) funds are targeted toward these areas.

¹¹ This policy is defined in Executive Order 12898 that was signed by President Clinton on February 11, 1994.

¹² Title VI Civil Rights and Environmental Justice Non-Discrimination issues can be found in the MPO's Title VI Program Manual and the Public Participation Plan. More Environmental Justice information related to programs, including MPO operations which are funded by the Federal Highway Administration (FHWA) and the Federal Transit Administration (FTA), can be found at the following website: www.fhwa.dot.gov/environment/environmental-justice/overview.

99% Confidence Interval for the Mean Minority Population, by 2010 Census Block Groups (vintage 2018 TIGER/Line Shapefiles)

The US Census Bureau collects demographic data for one race and a combination of races. For this review, only one race data attribute was used to depict areas within Douglas County that have a minority population within the 99% Confidence Interval average population residing in Lawrence and Douglas County. Essentially, a confidence interval indicates a range of values that's likely to encompass the true value in our community. With a 99% mean confidence interval we are 99% sure that the interval contains all of the values. The mean minority population is 12.86%. The 99% confidence interval is \pm 3.37%. Therefore, 12.86% + 3.37% equals 16.2%. So we are 99% sure that the minority population is under 16.2%.

The majority race in this region is White/Caucasian and the other races collectively are considered as the minority group population for this EJ analysis. The 2013-2017 American Community Survey 5 Year Estimates indicates the minority population within Douglas County represents 16.6% of the total population. In Lawrence, the minority population is slightly higher representing 19.2% percent of the total population.

The EJ zones consist of areas where census tracts are either Low/Moderate household income and/or at the minority 99% confidence interval. The EJ zones are mapped in Figure 10 & 11. Approximately 77,342 people or 59% of the total Douglas County population resides within EJ zones. No EJ zones are identified outside of the City of Lawrence.

Assess and Analyze Investments in the TIP

This assessment and analysis compares the EJ zones with TIP projects locations and fixed route transit services. EJ zones were also evaluated by EJ population within the ¼ mile buffer of transit stops and EJ population with zero vehicle households.

TIP Projects: Roadway, Bridge, Intersection, Enhancement, Access Management

Fiscally constrained TIP projects were mapped to see where the projects intersect with EJ zones. Not all TIP projects could be mapped for the EJ analysis. This analysis does not include transit allocations, planning studies, and projects that are not limited to a specific point on a map. Table 18 shows the total 2019-2022 TIP projects, the TIP projects that were able to be mapped, and the mapped TIP projects that are within the EJ zones.

Table 18: Fiscally Constrained TIP Projects (Shown in \$1,000s)

	Number of Projects	Total Project	Cost
TIP Projects (2019-2022)	31	\$	94,686
TIP Projects Mapped (2019-2022)	13	\$	39,783
TIP Projects Mapped in EJ Zones (2019-2022)	12	\$	35,333

^{*}Total project costs includes project phases outside of the TIP years (2019-2022)

Thirteen (13) projects were mapped in this 2019-2022 TIP, for a combined total of \$39.8 million. Of the 13 mapped projects in the TIP, 12 are considered EJ projects for the purpose of this analysis for a total improvement cost of \$35 million (as shown in Table 19). Approximately 89% of the total funding for the 13 mapped projects will be invested in EJ zones. These projects are completely or partially, on a road that is in an EJ zone or along an EJ zone border.

^{**}Various Lawrence Sidewalk/Bike/Ped/ADA Ramps Projects are not mapped, but EJ proritization is included in the selection of locations process, thus this project was included in the projects mapped in EJ Zones

Table 19: EJ Zone Projects (Shown in \$1,000s)

Project #	Project Name	Project Type	Total Project Cost	Miles of New Bikeway	Miles of New Sidewalk
106	Wakarusa Drive Extension	Road, Bridge	\$6,200.00	0	0
107	Kasold Reconstruction, Clinton Pkwy to Hyvee	Road	\$2,600.00	0.1	0.1
113	Lawrence CCLIP, US-40/ Tennessee St. Intersection	Road	\$492.00	0	0
203	19th St, Naismith to Iowa Reconstruction	Road	\$3,775.00	1	0.5
214	Wakarusa Reconstruction, Research Pkwy to 18th St	Road	\$6,400.00	0.19	0
229	19th Street Reconstruction, O'Connell Rd to Harper St	Road	\$3,625.00	0.5	0.5
234	23rd Street Reconstruction, Haskell to East City Limits	Road	\$9,750.00	TBD	TBD
302	Intersection of US-40/K-10 at Wakarusa/27th Street Signal	Intersection	\$526.70	0	0
506	Lawrence Safe Routes to School TA Phase 2	Transportation Alternatives	\$559.00	0	1.68
508	Lawrence Loop Shared-Use Paths - 8th St to 11th St & 29th St	Transportation Alternatives	\$880.00	0.6	0
704	Traffic Study of KTEN Crossing Entrance and US-59	Road	\$25.00	0	0
705	K-10 (US-40) and 27th St. Intersection Study	Other	\$500.00	0	0
*Total project	ct cost includes project phases outside of the TIP years (2019-2022)	Totals	\$ 35.333	2.4	2.8

A majority of the projects that are within EJ zones are reconstruction projects, where the only expected impact is during the actual reconstruction, e.g. road closures, delays. Furthermore, many of the projects include new bikeway and sidewalk facilities. The projects included in the EJ zones include at least 2.4 miles of new bikeway facilities and 2.8 miles of new sidewalks. These numbers do not take into account facilities on 23rd St. Reconstruction: Haskell Ave. to East City Limits (234) or the Various Lawrence Sidewalk/Bike/Ped/ADA Ramps (507) projects as the miles have not been determined.

Project 507 – Various Lawrence Sidewalk/Bike/Ped/ADA Ramps – is a grouped project for the first dedicated funding for non-motorized projects in Lawrence. Approximately \$600,000 of local funding is available in 2019, increasing to \$1 million annually in 2021. This funding utilizes the Non-Motorized Projects Prioritization Policy to select projects. ¹³ Distribution of projects in EJ zones is part of the selection process; therefore, projects this locally funded project will be distributed in EJ zones. Also \$303,000 of Community Development Block Grant (CDBG) was awarded to the City of Lawrence to address sidewalk and ADA ramp issues in the low/moderate income areas (a portion of the EJ zones). CDBG funding is competitively awarded annually. The City of Lawrence will continue to pursue additional CDBG funding. All of the local and federal funding used to build new miles of bikeway and sidewalk will improve connectivity and mobility for all populations.

However, EJ analysis is more than just the location of the projects and how many are (or aren't) in EJ areas. All of the projects in this TIP have impacts and benefits both during construction and long term after they are built as part of the network. Of the projects included in this TIP, there are no anticipated impacts to significant property displacement.

A review of the MPO's urban area indicates that all residents in the urban portion of the region regardless of race or income experience the impacts of the urban transport system in similar fashion. The benefits and impacts of that urban transportation network are not concentrated in any particular EJ zones.

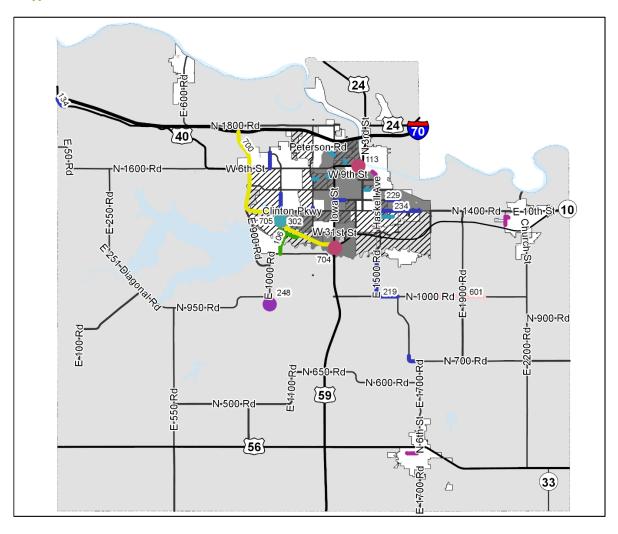
The region's transportation projects are selected based on the merit of the project and the need for improvements to the transport system without any intended bias towards impacting EJ areas any more than any other area in the region.

There are busy congested intersections all around the urban area in both high and low income areas. Regardless of your racial group or where you live you are likely to encounter one of these intersections near your home. The impacts from the transportation system (congestion, noise, pollutant emissions, etc.) appear to be more related to whether you live in the Lawrence Urbanized Area or not; more than related to whether you live in a minority or low income area or not. Disproportionate impacts from federally funded transportation projects on low income or minority population clusters were not observed in this EJ analysis.

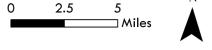
Figure 10: MPO Fiscally Constrained Programmed Roadway Projects in Relation to EJ Zones (Douglas

¹³ https://assets.lawrenceks.org/assets/boards/transportation-commission/NonMotorizedPolicy.pdf

County)







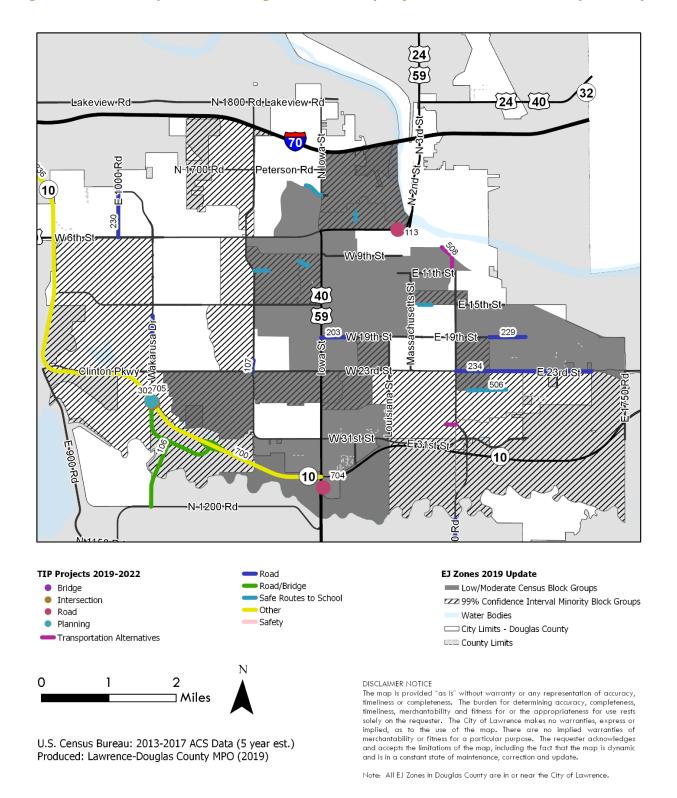
U.S. Census Bureau: 2013-2017 ACS Data (5 year est.) Produced: Lawrence-Douglas County MPO (2019)

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Note: All EJ Zones in Douglas County are in or near the City of Lawrence.

Figure 11: MPO Fiscally Constrained Programmed Roadway Projects in Relation to EJ Zones (Lawrence)



TIP Projects: Fixed Route Transit

Lawrence Transit & KU on Wheels 2018-2019 fixed routes are shown on Figure 12. Sixteen (16) or 84% of the current routes have 30 minute or less service during peak times. As resources becoming available, Lawrence Transit & KU on Wheels are transitioning all routes to 30 minute or less service during peak times. Route information can be accessed at www.lawrencetransit.org/routes. None of Lawrence Transit projects were mapped because the transit service occurs throughout the community and is not located on one fixed point. Lawrence Transit projects include operating costs for fixed route and paratransit services, as well as the capital costs associated with vehicle acquisition.

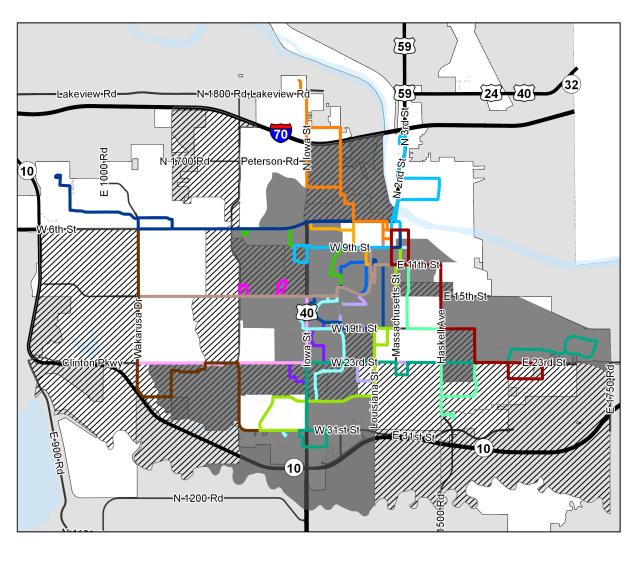
For the case of federally supported transit services, both the fixed route system and paratransit service areas, cover parts of Douglas County with low-income and/or minority populations. Therefore, the TIP projects associated with these transit and paratransit services are all considered to serve EJ populations and to be located in EJ zones for the purpose of this analysis. If there is any difference with EJ zones it seems to be that some EJ zones receive greater choice and frequency of transit services because those areas coincide with the parts of the region with population densities high enough to support frequent fixed route transit.

Additional review was performed to provide further mobility analysis in determining if there are any disparate or adverse impacts resulting from transit services included in the TIP. Projects were evaluated to determine the percentage of people who live within the EJ zones that are within a ¼ mile buffer of transit routes and the people who live within the EJ zones that are zero vehicle households. Zero vehicle households also access transit to gain mobility, but again stops must be within walking distance to be easily used.

As shown in Figure 13, approximately 75,543 people or 98% of people who live within the EJ zones are within ¼ mile of a transit route. A ¼ mile is generally the distance people are comfortable walking. Thus, 98% of people who live within EJ zones have easy to access transit service, thereby expanding their mobility.

The red color within the zero vehicle households map (Figure 14) indicates a high concentration of zero vehicle households. The highest concentration of zero vehicle households is located at the southwest corner of Clinton Parkway and US-59/Iowa Street, which is also part of the EJ zone. Transit service is provided in this area. Other higher concentration areas of zero vehicle households are also located in EJ zones. Transit service is offered in many of the higher concentrated zero vehicle households and EJ zones. This provides more mobility and promotes movement of residents throughout Lawrence.

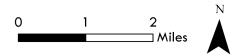
Figure 12: Fixed Route Transit Routes 2018-2019 in Relation to EJ Zones



EJ Zones 2019 Update

222 99% Confidence Interval Minority Block Groups

Low/Moderate Census Block Groups



U.S. Census Bureau: 2013-2017 ACS Data (5 year est.) Produced: Lawrence-Douglas County MPO (2019)

2018-2019 Transit Route (example)

Water Bodies

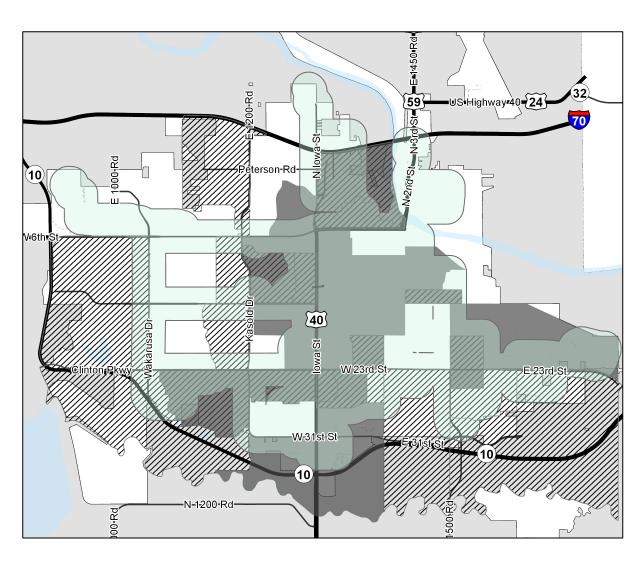
□ City Limits - Douglas County

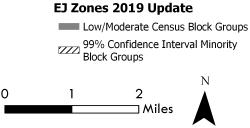
County Limits

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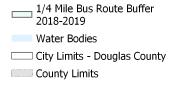
Note: All EJ Zones in Douglas County are in or near the City of Lawrence.

Figure 13: 1/4 Mile Bus Stop Transit Sheds in Relation to EJ Zones





U.S. Census Bureau: 2013-2017 ACS Data (5 year est.) Produced: Lawrence-Douglas County MPO (2019)

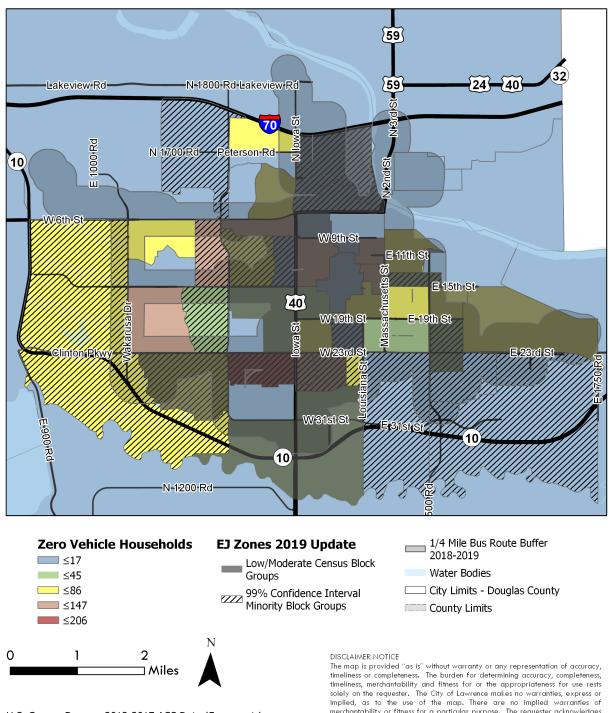


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Note: All EJ Zones in Douglas County are in or near the City of Lawrence.

Figure 14: Zero Vehicle Households in Relation to EJ Zones



U.S. Census Bureau: 2013-2017 ACS Data (5 year est.) Produced: Lawrence-Douglas County MPO (2019)

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Note: All EJ Zones in Douglas County are in or near the City of Lawrence.

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Conclusion

Reviewing the assessment and analysis in this chapter the MPO believes there are no significant EJ issues with the selection of roadway, bridge, transportation enhancement, or transit projects in Douglas County. This TIP includes projects inside and outside of EJ zones, and projects for this TIP are selected based on objective planning and engineering criteria (e.g., bridge deterioration, pavement conditioan, transit demand, etc.).

APPENDICES

Appendix A – Planning and Engineering Factors for Local Project Consideration

Planning Factors

- > Is the project consistent with the goals and objectives found in the Metropolitan Transportation Plan (MTP)?
- > Is the project listed as a recommended transportation system improvement in the MTP?
- > Is the project regionally significant as defined by federal regulations and the latest Regionally Significant Policy approved by the MPO?
- > Is the project consistent with the latest MPO/FHWA approved Functional Classification Map?
- > Is the project consistent with the latest locally approved comprehensive plan (including the land use plan, area plans, Safe Routes to School, and other comprehensive plan elements/chapters) covering the project location?
- Does the project include provisions for transit, bicycle, and pedestrian movements (including students and ADA accessibility) as needed to provide a regional multimodal transportation system?
- Has the project sponsor considered Title VI and Environmental Justice (EJ) impacts in the planning for this project, and if the project is in a minority and/or low-income area has the project sponsor considered and addressed the Title VI and EJ issues related to the project?
- > Has the project sponsor received public comments about this project and if received considered those public comments in the planning and design of the project?
- > Is the project eligible for the type of federal and/or state funding being proposed for it, and is there adequate funding available for the project in the year it is proposed?

Engineering Factors

- > Does the Project address a facility that has (existing or projected) a high volume to capacity ratio indicating it or will experience significant congestion and lower levels of service?
- Does the project location have a traffic accident history marked by a higher than expected accident rate which, along with other accident attributes, indicates that an engineering change could reduce the number and/or severity of crashes?
- > Does the project location have pavement conditions noting a deteriorated state showing that the facility is in need of improvements to maintain its function and/or that those improvements can be made economically now before more costly reconstruction is needed?
- Does the project site include geometric design that is inadequate by current standards and does the project sponsor have documentation that this design is hampering the facility's ability to handle the traffic loads and/or vehicle sizes using the facility in a safe and efficient manner, and does the project sponsor plan to address those geometric deficiencies as part of this project?
- Does the project site or facility have structural deficiencies indicating that the facility is near the end of its projected lifespan and that it will need frequent maintenance to function adequately, and does the project sponsor plan to address these structural deficiencies as part of this project?
- Have safety concerns involving motorists, bicyclists, pedestrians and/or transit users and transit operations been identified at the project location and does the project sponsor plan to address those concerns as part of this project?
- Has the project location met minimum engineering standards set by the project sponsor that indicate the facility is in need of improvement, rehabilitation or replacement?

^{*}This list is not exhaustive. It is used at the discretion of local governments and project sponsors and may be changed in the future.

Appendix B – Definitions of Major Projects and Significant Delay

Roadways (including intersections and bridges)

The major roadway projects include projects located on a roadway classified by the MPO as a Major Collector or higher, with construction costs of at least \$2.0 million and that have at least one of the following attributes:

- Designed to increase roadway capacity and/or decrease traffic congestion
- Designed to improve safety
- Designed to replace aging infrastructure and bring it up to current standards
- Results in significant delay and/or detours during construction

Major projects do not include the following types of projects that are considered to be routine maintenance projects: mill & overlay, micro-abrasion, micro-surfacing, crack sealing, concrete rehabilitation, curb repairs, sweeping, mowing, spot repairs, and interim measures on detour routes.

Transit Facilities and Services

The major transit projects include projects that need to be listed in the TIP because they use federal funding and/or are regionally significant, have a total cost of at least \$1.0 million, and meet at least one of the following criteria:

- Acquisition of three or more new transit vehicles
- Addition or expansion operations and/or maintenance buildings
- Initiation of new transit service or expansion of transit services into territory not previously served

Major transit projects do not include the following types of projects that are considered to be routine: preventive maintenance on transit vehicles; purchase of spare parts, shop supplies and fuel; annually received formula based operating assistance; purchase of bus stop signs, shelters and related items; scheduled purchases of one or two transit vehicles; staff training and recruitment; and other routine operational activities.

Bikeway and Pedestrian Facilities

The major bikeway and pedestrian projects includes projects that need to be listed in the TIP because of federal funding and/or regional significance, and meet at least one of the following criteria:

- Total project cost of at least \$ 500,000
- Construction of bikeway or pedestrian facility (or extension of existing facility) into a location where a bicycle/pedestrian facility did not exist before

Major bikeway/pedestrian projects do not include the following types of projects that are considered to be routine maintenance projects: patching, crack sealing, curb repairs, sweeping, mowing, spot repairs, landscaping maintenance, sign replacements, and other routine operational activities.

Significant Delay

The term significant delay will be defined as two years or more from the year first listed for the project in the previous TIP.

Appendix C – Progress on Previous TIP Projects

Major Projects from the Previous 2017-2020 TIP

Using the definitions listed above the following major projects from the previous 2017-2020 TIP were implemented between the start of 2017 and the approval date for this new 2019-2022 TIP. This current TIP covers 2019 to 2022 so some 2019 projects could be listed in both the previous and current TIP documents.

Table C-1: Completed Major Projects

TIP #	Project Type	Project Name	Project Sponsor	Location	Description	Year	Cost (in 1,000s)
				Bridge 1.95 miles east of US			
		US 56 Tauy Creek Drainage		59 & Tauy Creek Bridge 2.7		2010-	
103	Bridge	Bridge	KDOT	miles east of US-59	Bridge Replacement	2013	\$ 3,035
				K-10: 2000 ft W of Junction			
					Conversion of Standard Stop Controlled		
	_	South Lawrence Trafficway/K-		of Junction of K-10/E 1200	intersection to Right In - Right Out		
109	Intersection	10 West Leg in DG Co.	KDOT	Rd	configuration.	2016	\$ 304
					Reconstruction of street will include subgrade		
		Karald Bassaston dia Gla Gl		Karald Diana Cile Char Bala	treatment, concrete pavement, traffic signal	2014	
204	D	Kasold Reconstruction: 6th St		Kasold Drive: 6th St to Bob	at Kasold and Harvard, and multi-modal	2014-	
204	Road	to Bob Billings Pkwy	Lawrence	Billings Pkwy	facilities.	2017	\$ 6,500
		23rd Street (K-10) Access		23rd St. (K-10) from US 59		2016-	
205	Road	Point Consolidation	KDOT		Consolidation of Access Points.	2016-	\$ 316
205	Rudu	POINT CONSOIDATION	NDO I	(10wa St.) E to O Corineii Ru.	Reconstruction of street will include subgrade	2016	\$ 210
				Massachusetts St to	treatment, surfacing, storm sewer, geometric	2015	
212	Road	9th Street Reconstruction	Lawrence	Delaware St	improvements and multimodal facilities.	2013-	\$ 2,500
212	Noau	Bridge 1000-1638	Douglas	Rte 458 .38 mi east of Rte	improvements and multimodal racilities.	2013-	\$ 2,300
222	Bridge	Replacement	County	1055	Replace Rte 458 bridge over Coal Creek	2015	\$ 938
222	Druge	Bridge 0064-0550	Douglas	Rte 1029 .6 mi north of N1	Replace Rie 430 blidge over coal creek	2016-	\$ 950
224	Bridge	Replacement	County	Rd	Replace bridge	2017	\$ 686
	Diage	Culvert 1500-1624	Douglas	N 1500 Rd/E 15th St. at E	Replace narrow culverts, channel	2016-	Ψ 000
225	Culvert	Replacement	County	1625 Rd intersection	improvements	2017	\$ 500
	Cuit Cit	Harvard & Wakarusa	County	Harvard & Wakarusa	Convert All Way Stop controlled intersection to		9 300
226	Intersection	Roundabout	Lawrence	Intersection	two lane roundabout/	2016	\$ 2,214
		23rd & Ousdahl Storm Sewer			,	2016-	
232	Intersection	Improvements	Lawrence	23rd & Ousdahl Intersection	Geometric Improvements & Storm Sewer.	2017	\$ 3,000
		Access Consolidation on K-10					<u> </u>
242	Road	West of Ousdahl Rd	KDOT	K-10 W of Ousdahl Rd.	Access Improvements.	2017	\$ 80
		US-56 Improvements from			Improvements to US-56 - Realign Eisenhower		
243	Road	Eisenhower St to 1st St	KDOT	Eisenhower St to 1st St	and construct 3 lane US-56 in Baldwin City.	2017	\$ 1,675
		Install Permanent Signal at K-				2016-	
300	Traffic Signal	10 at US-59/CR 458	KDOT	K-10 at US-59/CR 458	Installation of a permanent signal.	2017	\$ 936
			Lawrence		Comprehensive Transportation Program.	2015-	
403	Transit/Paratransit	Transit Capital Assistance	Transit	Lawrence	Purchase of replacement paratransit vehicles	2017	\$ 3,363
		Cwood: FTA 5310 Capital	Cottonwood				
409	Transit/Paratransit	Funds	Inc.	Lawrence	Purchase a Ramp Mini-Van.	2018	\$ 39
		Indep. Inc: FTA 5310 Capital	Independence				
411	Transit/Paratransit	Funds	Inc.		Full size van.	2017	\$ 59
			Lawrence				
		LPM: FTA 5310 Capital	Presbyterian		Purchase a 14 Passenger Composite Small		
413	Transit/Paratransit	Funds	Manor	Lawrence	Transit Bus.	2018	\$ 65
		SRC DGCO: FTA 5310 Capital			Purchase a Ramp Mini-Van (\$38) and a Full		
414	Transit/Paratransit	Funds	Center for	Lawrence	Size Van (\$60).	2018	\$ 98

Table C-1: Completed Major Projects (Continued)

TIP #	Project Type	Project Name	Project Sponsor	Location	Description	Year	ost ,000s)
				413 East 7th Street,	Revitalize the Santa Fe Depot site and	2015-	
500	Enhancement	Santa Fe Depot Restoration	Lawrence	Lawrence, KS	building.	2018	\$ 2,042
					Extend the length of the brick boarding		
					platform, cover the platform and install		
					lighting, install native prairie landscaping and		
					three additional ADA parking spaces to	2015-	
501	Enhancement	Baldwin City Depot Railscape	Baldwin City		complete the Depot Railscape.	2018	\$ 285
				South Eudora from Eudora	10' wide shared use path that will have ADA		
				High School to Eudora Middle	ramps and create a safe access for residents	2016-	
503	Enhancement	Eudora South Trail Phase 2	Eudora	School	of all ages.	2017	\$ 354
					The project will add sidewalks along		
					designated safe routes for 2 schools		
					(LMCMS/WES) on arterial roadways		
					w/sidewalk on 1 side & residential roadways		
				Various sidewalk in 2	w/no sidewalk on either side. It will also add		
		Lawrence Safe Routes to		locations, RRFB at aprox. 9	RRFBs at existing school crossings w/o a	2016-	
504	Enhancement	School TA	Lawrence	locations	crossing guard	2018	\$ 322
		23rd St Access Management	-		Removal of driveway access to 23rd Street		
603	Safety	2246 Ohio St Driveway	Lawrence	23rd Street & Ohio Street		2017	\$ 9
					Study for the feasibility of tolling in the SLT &		
					K-10 Corridors in Douglas and Johnson		
					County. This study will include a determination		
					of which tolling scenarios are most feasible at		
		Toll Feasibility Study for the			a sketch planning level for implementing		
703	Other	SLT & K-10 Corridors	KDOT	435/K-10 Junction	corridor improvements.	2016	\$ 188

Major Projects from the 2017-2020TIP That Were Significantly Delayed

Table C-2: Significantly Delayed Major Projects

TIP #	Project Type	Project Name	Project Sponsor	Location	Decription	Original Year	Currently Programmed Year in the TIP	Cost 1,000s)
					Reconstruction of street			
					including pavement, storm			
		Wakarusa Reconstruction:		Wakarusa: Research Pkwy		2020-		
108	Road	Research Pkwy to 23rd St	Lawrence	to 23rd St	facilities, and median.	2021	2022-2021	\$ 6,500
				Route 1055 from 725	Roadside safety improvements,			
		Route 1055 at North 700	Douglas	North to 1670	replace two bridges and one			
208	Road	Curve	County	East	culvert.	2017	2019-2020	\$ 950
		Rte 458 Improv., E1500 to			Complement are used alternations.			
		E1600,			Construct paved shoulders;	2047		
		•	Douglas	E1500 to E1600 & N940	replace narrow culvert; flatten	2017-		
219	Road	N1000	County	to N1000	roadside slope.	2019	2019-2021	\$ 2,275
					Reconstruct & tie into venture			
					park, roundabout at 19th &			
		19th Street Reconstruction,			harper, construct sidewalk &	2016-		
229	Road	O'Connell to Harper	Lawrence	O'Connell to Harper	bike lanes.	2017	2018-2019	\$ 3,000

Appendix D – Latest Federal Fiscal Year - List of Obligated Projects

The purpose of this listing is to illustrate the progress of federal aid transportation projects in the region as they move through the years in the TIP projects table and onto the recently obligated projects list. Projects are listed based on the year the federal funds were obligated, not necessarily the year the construction of the project began. The federal amount represents the federal funds spent on the project.

The table below describes projects listed in the TIP that were obligated in the previous Federal Fiscal Year (FFY). A listing of projects with federal aid obligated in the previous FFY are presented to the MPO each year for review either as part of a TIP approval or amendment or as a separate memo.

The listing will be is available on the MPO website and is sent to the Kansas Department of Transportation who will then distribute the listing to the FHWA and the FTA for informational purposes.

				Lawrence-Douglas C	ounty MPO Area - List of Project for Which Fede	ral Funds Were Obligated to in FFY 2018 (Cost in	\$1,000°z)						
MPO#	KDOT#	Project Name	Responsible Party	Route or Service Area / Project Location	Project Description	Work Description	Federal Funding Source	Federal Funds Requested in TIP	Federal Funds Obligated in FPY 2018	Federal Funds Obligated To Date	Federal Funds Remaining	Bike &/or Ped Elements	Project Status
415	_	Bert Nash, FTA 5310 Capital Funds	Bert Nash Community Health Center	Lawrence	Transit/Paratransit	Purchase a Ramp Mini-Van and a Full Size Van	5310	78	78	78	0	N	Ordered 03/18 - delivered in 2018/early 2019
412	5307 FTA	Lawrence Transit - Operating Funds	Lawrence Transit	Lawrence	Operating and Preventative Maintenance activities	Operating	5307	2,237	1,434	1,434	803	N	ACTIV
					Replace nine narrow culverts and remove roadside trees to improve								
601	C-4857-01	Route 458 HRRR	Douglas County	Rte 458 E 1800 Rd. to E 2000 Rd.	roadside safety.	Roadside Improvement	HSIP	753	753	753	0	N	ACTIV
206	KA-1826-01	K-10 (SLT)/Bob Billings Pkwy on West Side of Lawrence	крот	K-10/15th Street/Bob Billings Pwky	K-10 (South Lawrence Trafficway)/Bob Billings Pkwy on West Side of Lawrence	A current interchange configuration has been developed as part of the K- 10, South Lawrence Trafficway Comidor (Proj. No. K-3359-01). This project will construct the interchange.	STP	23,641	(1,239)	15,904	7,737	N	CLOSE
500	TE-0373-01	Preservation of Historic Santa Fe Station in Lawrence	Lawrence	413 East 7th St., Lawrence, KS	Preservation of Santa Fe Station located at 413 8 7th Street, Lawrence	Preservation of historic features, improvements to the exterior (doors, roof, chimmy and windows), interior improvements (doors, walls, ADA compliance, restration of original finishes and fumishings), and mechanical/electrical systems (heating and cooling systems, light fixtures, fre suppression system, emergency lighthing).		1,632	431	1,632	0	N	ACTIV
501	TE-0424-01	Improvements to Platform of the Baldwin City Depot	Baldwin City	1601 High Street	Baldwin City Depot located at 1601 High Street	Improvements to depot platform including extending the length of the brick train boarding platform, covering the boarding platform, platform lighting, landscaping, and addition of three ADA parking places	TA	190	14	189	1	N	CLOSE
505	TE-0459-01	Lawrence: 19th & Iowa Ped/Bike Underpass	Lawrence	19th St & Iowa St (US-59) Intersection	n Pedestrian/bicycle underpass	Install ped/bike underpass at intersection	TA	1,868	1,869	1,869	(1)	Υ	ACTIV
604	U-0225-01	Lawrence: 13th & Massachusetts	Lawrence	Massachusetts St. 11th St to 14th St	Lawrence: Massachusetts 11th Street to 14th Street	Construct Two Way Left Turn Lanes (TWLTL) between 11th and 14th Street. This road diet will reduce the existing 4 lane to a 3 lane with the addition of bite lanes for Ne/28 traffic on Massachusetts Street. Sure milling, overlay and pavement markings.	HSIP	100	100	100	0	Υ	ACTIV
		Lawrence: Safe Routes to School		Various sidewalk in 2 locations, RRFB	The project will add sidewalks along designated safe routes for 2 schools (LMCMS/MES) on arterial roadways w/sidewalk on 1 side 8 residential roadways w/no sidewalk on either side. It will also add RRFBs at existing								
504	U-2305-01	(Phase 2)	Lawrence	at aprox. 9 locations	school crossings w/o a crossing guard	Add sidewalks and signals Rail-Highway Signals Flashing Light	TA	189	189	189	0	Y	ACTIV
600	X-2892-01	BNSF & E 1900 Road east of Lawrence	KDOT	BNSF & E 1900 Road east of Lawrence	BNSF & E 1900 Road east of Lawrence		HSIP	2,000	(289)	272	1,728	N	CLOSE

Legend
5307 - FTA Section 5307 - Operating Assistance, Preventive Maintenance, Program Administration, 8. Security and Capital

5309 - FTA Section 5309 - Capital Bus and Bus Facilities 5310 - FTA Section 5310 - Elderly and Disabled 5317 - FTA Section 5317 - New Freedom

5339 - ETA Section 5339 - Bus, and Bus Facilities

BR - Bridge Replacement Funds HSIP - Highway Safety Improvement Program NHPP - National Highway Performance Program SFP - Surface Transportation Program

SRTS - Safe Routes to School

Note - Projects with * are from a master project in the STIP and are not included in our region's TIP

Appendix E – TIP Public Participation

Task	Date	March	April	May	June	July	August	September	October	November
Discuss TIP development with KDOT, FHWA, & FTA	3/30/18	-								
Implement updates (TIP form and database)	April									
Discuss TIP development & incorporation of PMs with TAC	TAC - 5/1/18									
TIP project submission deadline to MPO staff	6/8/18				I					
Develop new TIP	6/8/18 - 8/7/18				l					
Send draft to KDOT, FHWA, and FTA for review	8/7/18 - 8/14/18						_			
30 day public comment period*	8/15/18 - 9/14/18						_			
Incorporate public comments	9/14/18 - 9/18/18							I		
Revised draft back to KDOT, FHWA, and FTA	9/18/18 - 9/21/18							I		
	TAC - 10/2/18								_	
TAC/MPO Policy Board consideration of incorporating public comments into final TIP	MPO - 10/18/18								_	
Pending Policy Board approval post online and send to KDOT, FHWA, and FTA	10/18/18								_	
Inclusion in Kansas STIP	November									

Public participation process includes: Newspaper advertisement, email to subscription list, place document online and at public locations - Baldwin City Public Library, Eudora Public Library, Lawrence Public Library, Lecompton City Hall, and MPO Office, send to TAC and Policy Board for review

	Public Comment Period	# of Public Comments	TAC Action	Policy Board Action
Original Approval	8/15/18 - 9/14/18	0	October 2, 2018	October 18, 2018
Amendment 1	1/10/19 - 1/25/19	0	February 5, 2019	February 21, 2019
Amendment 2	3/7/19 - 3/22/19	0	April 2, 2019	April 18, 2019
Amendment 3	7/11/19 - 7/26/19	1	August 13, 2019	August 15, 2019

TIP public comments and MPO staff responses can be viewed at www.lawrenceks.org/mpo/tip/comments.



FFY 2019 - 2022 L-DC MPO Transportation Improvement Program (TIP)

Revision Summary: Amendment 3

						Total
TIP#:	KDOT #:	Project Name:	Project Sponsor:	Action:	Revision Description:	Total Project Cost:
705	KA-3634-08	K-10 (US-40) and 27th St Intersection Study	KDOT	New Project	Program \$500 of State PE funding in 2019 for a study for options on K-10 for geometric improvements to the at-grade intersection of K-10 (US-40) and 27th St. This project is authorized for PE only.	\$500
706		Traffic Signal Coordination Study	Lawrence	New Project	Program \$300 of Local PE funding in 2019 for a study to provide a comprehensive update to the traffic signal system, optimize operations and development of a long-term city-wide traffic signal coordination and timing program.	\$300
106		Wakarusa Drive Extension	Douglas County	Project Change	Revise 2019 Local PE from \$700 to \$175 in 2021, 2020 Local ROW from \$300 to \$150 in 2022, 2020 Local UTIL to 2022, 2021 Local CONST to 2022, 2022 Local CONST from \$5,000 to \$2,500 in 2023, and adding \$75 of 2022 Local PE funding.	\$6,200
107		Kasold Reconstruction, Clinton Pkwy to HyVee	Lawrence	Project Change	Revise 2017 Local PE from \$100 to \$170 in 2019 and 2018 Local CONST from \$1,000 to \$2,430 in 2020.	\$2,600
208		Route 1055 at North 700 Curve	Douglas County	Project Change	Revise 2020 Local CONST from \$1,325 to \$1,700.	\$1,825
214		Wakarusa Reconstruction, Research Pkwy to 23rd St	Lawrence	Project Change	Revise 2022 Local PE to 2021 and revise 2022 Local CONST from \$2,400 to \$6,000. Updating the project name to extend the project limits from 18th St to 23rd St.	\$6,400
219		Rte 458 Improv., E1500 to E1600, & Rte 1055, N940 to N1000	Douglas County	Project Change	Revise 2021 Local CONST from \$1,900 to \$2,300.	\$2,675
220		Route 1055 Improvements, N1000 to N1180	Douglas County	Project Change	Revise 2018 Local ROW to 2019, 2019 Local UTIL to 2020, 2019 Local CONST to 2020.	\$2,250
229		19th Street Reconstruction, O'Connell Rd to Harper St	Lawrence	Project Change	Revise 2021 Local CONST from \$2,500 to \$2,200 and add \$1,100 of 2020 Local CONST.	\$3,625
230		Queens Road, 6th to North City Limits	Lawrence	Project Change	Revise 2019 Local CONST to 2020.	\$3,800
249		Bridge 1267-1200 replacement	Douglas County	Project Change	Project has been cancelled at Douglas County's request.	\$0
401		Independence Inc., FTA 5311 Operating & Capital	Independence Inc.	Project Change	Program 2020 5311 operating and adminstrative funding - \$60 of 5311 Operating, \$24 of State Operating, \$36 of Local Operating, Program 5311 Capital funding - \$31 of 5311 Capital funding and \$8 of Local funding for purchase of a Ramp Van.	\$269
510	TE-0480-01	Bluejacket Trail: Phase II	Eudora	Project Change	Add the KDOT # to the project, revise the 2020 Local UTIL from \$89 to \$55, and increase the 2020 Local CONST from \$71 to \$87.	\$460
601	C-4857-01	Route 458 HRRR	Douglas County	Project Change	Project was scheduled to be finished in 2018, but due to winter weather it wasn't completed. Reprogram in the TIP.	\$1,293

The Environmental Justice Zones were updated based on the newest data available.

Appendix G-TIP Project Listings

and the second control of the second the		13	14	15		16	
Project Sponsor: Douglas County Project Nam	e: Wakarusa Drive Extension	FFY	Fund Source	Phase	Federal	State	Local
2 TIP #: 106 8 KDOT #:		2019	Local	PE	\$0	\$0	\$700
Length (mi): 1.70 9 Location: F	No. 450 to almost 17 40 interest.	2020	Local	ROW	\$0	\$0	\$300
	Rte 458 to planned K-10 interchange at Vakarusa Dr	2020	Local	UTIL	\$0	\$0	\$100
_		2021	Local	CONST	\$0	\$0	\$3,200
4 Project Type: Road, Bridge 10 Work Type:	Grading, Bridge, Surfacing	2022	Local	CONST	\$0	\$0	\$5,000
Wakarusa Drive from planned K-10 10 interchange interchange to Route 458. Includes new bridge over Wakarusa River. *Alignment road const. 20	contingent on KDOT construction of K- e at Wakarusa Drive. Changed TIP # 06 in 2/2017 - Bridge const. 2021; 122; Douglas County & Lawrence						
not finalized would partner	on project.	17		18	3		19
		Federal Total:	\$0	Non-Fede Total:	eral \$9,300	Grand Total:	\$9,300
Project Sponsor: Agency responsible for project TIP #: MPO assigned number based on project type: - 100 - Roadway/Intersection - 500 - Enhancement - 200 - Bridges - 600 - Safety - 300 - ITS - 700 - Other - studies - 400 - Transit/Paratransit Length (mi): Measures the length or distance of the project Project Type: Classified into categories: - Bridge - Road - Enhancement - Safe Routes To Schools (SRTS) - Interchange - Safety - Intersection - Traffic Signal - ITS - Transit/Paratransit Date Added: Date incorporated into the TIP	- Access Management - Bridge Rehabilitation - Bridge Replacement - Capital - Geometric Improvement - Grading - Mill/Overlay - Operating - Other - Pedestrian & Bicycle Work 11 Last Revised: Date of most reamendment/revision number 12 Comments: Include notes or observations the other categories.		ecement djustment and	- Bus an - State c - Local (proper 15 Phase: - CONST - PE - P - ROW - 16 Funding: Fe 17 Federal Tota 18 Non-Federa	ced Mobility of Seniors d Bus Facilities (5339) of Kansas Funding (Stat Sovernment Funding (L ty and sales taxes - Construction reliminary Engineering - Right of Way sideral, State, or Local fr al: Total federal fundir I Total: Total non-fed : Total amount of fund	Program te) .ocal) - County an - UTIL - Utilit - CAPITAL OPERATING unding shown in a	d City funds from loc cies Transit Capital 6 – Transit Operating 1,000s
Description: Brief definition of the range of the project's work and tasks included Project Name: General project name to identify the project	13 FFY: Federal Fiscal Year – October 1 – Sept 14 Fund Source: - Community Development Block Grant - National Highway Performance Progra	(CDBG)					
KDOT #: Assigned by KDOT for each state administered and/or funded project (including projects for which KDOT provides federal money to the local government)	 Surface Transportation Program (STP Highway Safety Improvement Program Railway-Highway Crossings (set-aside Transportation Alternatives (TA) –incl 	m (HSIP) e from HSIP)	To School				
Location: Identifies the starting and ending point of project Work Type: Classified into categories:	funding - Urban Area Formula Grants (5307) - Rural Area Formula Grants (5311)						

| G-1 FFY 2019 TIP



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

Douglas County

TIP #: 106

Length (mi): 1.70

Project Type:

Road, Bridge

Date Added: 10/2016

Description:

New road construction to extend Wakarusa Drive from planned K-10 interchange to Route 458. Includes new bridge over Wakarusa River. *Alignment

not finalized

Project Name: Wakarusa Drive Extension

KDOT #:

Rte 458 to planned K-10 interchange Location:

at Wakarusa Dr

Work Type: Grading, Bridge, Surfacing

Last Revised: 8/2019

Comments:

Construction contingent on KDOT construction of K-10 interchange at Wakarusa Drive. Changed TIP # from 100 to 106 in 2/2017 - Bridge const. 2021; road const. 2022; Douglas County & Lawrence

would partner on project.

FFY	Fund Source	Phase	Federal	State	Local
2021	Local	PE	\$0	\$0	\$175
2022	Local	PE	\$0	\$0	\$75
2022	Local	ROW	\$0	\$0	\$150
2022	Local	UTIL	\$0	\$0	\$100
2022	Local	CONST	\$0	\$0	\$3,200
2023	Local	CONST	\$0	\$0	\$2,500

Federal Total:

Non-Federal Total:

\$6,200

Grand Total:

\$6,200

Project Sponsor:

Lawrence

KDOT #:

Project Name: Kasold Reconstruction, Clinton

Pkwy to HyVee

Location: Kasold from 22nd St to Clinton Pkwy

TIP #: 107

Length (mi): 0.16

Project Type:

Road

Work Type: Reconstruction

8/2019

Date Added: 10/2016

Description:

Reconstruction of street including pavement, storm sewer, sidewalks, bicycle facilities, and median.

Last Revised:

Comments:

Included in 2018 CIP. Changed TIP # from 101 to 107 in 2/2017 - this amendment makes no changes

to scope or funding.

FFY	Fund Source	Phase	Federal	State	Local
2019	Local	PE	\$0	\$0	\$170
2020	Local	CONST	\$0	\$0	\$2,430

Federal Total:

Non-Federal Total:

\$2,600

Grand Total:

\$2,600



FFY

2018 State

2018 Local

Fund

Source

Phase

CONST

CONST

(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

KDOT

Project Name: 23rd St 2 Way Left Turn Lane

TIP #: 110

KDOT #: KA-4473-04

Length (mi): 0.32 **Location:** 23rd St: Louisiana St to Massachusetts

St

Project Type:

Road

Work Type: Special Work

Date Added: 2/2017

Last Revised: 10/2018

Description:

Comments:

Construction of a 2 way left turn lane on

23rd St from Louisiana St to

Massachusetts St.

This project is part of the 23rd St KDOT/City turn back agreement. Agreement #385-16 was executed

4/24/17.

Federal Total:

\$0

Non-Federal Total:

\$1,800

Federal

\$0

\$0

Grand Total:

State

\$500

\$0

\$1,800

Local

\$0

\$1,300

Project Sponsor:

KDOT

Project Name: Lawrence CCLIP, US-40/

Tennessee St. Intersection

TIP #: 113

KA-4767-01 KDOT #:

Length (mi): 0.10 **Location:** US-40/Tennesse St. Intersection

Project Type:

Road

Work Type: Other

Date Added: 8/2018

Last Revised: 2/2019

Description:

Construct new right turn lane eastbound to southbound

Comments:

Revised estimates and funding

Fund **FFY Phase Federal State** Local Source 2019 State PE \$0 \$16 \$0 PΕ \$0 \$0 2019 Local \$4 2019 State **ROW** \$0 \$0 \$8 2019 Local **ROW** \$0 \$2 \$0 2019 State UTIL \$8 \$0 \$0 UTIL \$2 2019 Local \$0 \$0 2019 State **CONST** \$0 \$321 \$0 **CONST** \$0 \$0 \$131 2019 Local

Federal Total:

\$0

Non-Federal Total:

\$492

Grand Total:

\$492

FFY 2019 TIP



FFY

2019 State

2019 State

Fund

Source

Phase

CONST

PΕ

Federal

\$0

\$0

(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

KDOT

Project Name: US-40 Mill/Overlay, SN/DG CO to

0.15 Miles W of E50thRd

TIP #: 134

KDOT #: KA-5046-01

Length (mi): 0.53 **Location:** Shawnee/Douglas County Line to 0.15

Miles West of County Road E50th Road

Project Type:

Road

Work Type: Mill/Overlay, Surfacing

Date Added: 10/2018

Last Revised: 4/2019

Description:

0.5 Inch Cold Mill, 1.5 Inch Overlay and

Edge Wedge Rock on Shoulders

Comments:

Cost increase due to removal of federal funds

Federal Total:

\$0

2016 STP/NHPP

Non-Federal Total:

\$148

Grand Total:

State

\$37,123

\$0

\$0

\$0

State

\$1

\$147

\$148

Local

\$0

\$0

\$0

\$0

Local

\$0

\$0

Project Sponsor:

KDOT

Project Name: South Lawrence Trafficway

TIP #: 200

K-8392-04 KDOT #:

Length (mi): 5.96 **Location:** SO Junct US 59/K10 E to K10

Project Type:

Road

Work Type: Special Work, Right of Way

Date Added: 10/2014

Last Revised: 10/2018

Description:

Linked to Project L-8392-01.

Comments:

Revise the source of local match for the use of toll credits- Fed amount of NHPP/STP reflect change to toll credits. State \$ reflects non-participating amount

of project.

Fund **FFY Phase Federal** Source 2016 State PE/R/U/C/CE \$0 2016 STP/NHPP PE \$7,337 2016 STP/NHPP UTIL \$12,640

CONST/CE

Federal Total:

\$148,977

Non-Federal Total:

\$37,123

\$129,000

Grand Total:

\$186,100

FFY 2019 TIP



FFY

2017 Local

2019 Local

Fund

Source

Phase

CONST

PΕ

(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

Lawrence

Reconstruction

TIP #: 203

Length (mi): 0.50

Road

Date Added: 10/2014

Description:

Project Type:

Reconstruction of street will include subgrade treatment, surfacing, storm sewer, geometric improvements and multimodal facilities.

Project Name: 19th St, Naismith to Iowa

KDOT #:

19th St from Iowa St to Naismith Dr Location:

Work Type: Grading, Surfacing

Last Revised: 2/2019

Comments:

Federal Total:

\$0

Non-Federal Total:

\$3,775

Federal

\$0

\$0

Grand Total:

State

\$0

\$0

\$3,775

Local

\$300

\$3,475

Project Sponsor:

Douglas County

TIP #: 208

Length (mi): 0.75

Project Type: Road

Date Added: 10/2014

Description:

Roadside safety improvements, replace

two bridges and one culvert.

Project Name: Route 1055 at North 700 Curve

KDOT #:

Location: Route 1055 from 725 North to 1670

East

Work Type: Rehabilitation, Bridge Replacement

Last Revised: 8/2019

Comments:

Fund **FFY Federal State Phase** Local Source 2020 **ROW** \$0 \$0 \$25 Local UTIL \$0 \$0 \$100 2020 Local 2020 Local **CONST** \$0 \$0 \$1,700

Federal Total:

\$0

Non-Federal Total:

\$1,825

Grand Total:

\$1,825



FFY

2021 Local

2022 Local

Fund

Source

Phase

CONST

PΕ

(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

Lawrence

Project Name: Wakarusa Reconstruction,

Research Pkwy to 23rd St

TIP #: 214

Length (mi): 1.47 KDOT #:

Wakarusa: Research Pkwy to 23rd St Location:

Project Type:

Road

Work Type: Reconstruction

Date Added: 10/2016

Last Revised: 8/2019

Description:

Reconstruction of street will include subgrade treatment, surfacing, storm sewer, geometric improvements, and multimodal facilities.

Comments:

Extend project limits from 18th St to 23rd St.

Federal Total:

\$0

Non-Federal Total:

\$6,400

Federal

\$0

\$0

Grand Total:

State

\$0

\$0

\$6,400

Local

\$400

\$6,000

Project Sponsor:

Douglas County

Project Name: Rte 458 Improv., E1500 to E1600,

& Rte 1055, N940 to N1000

TIP #: 219

Length (mi): 1.60

KDOT #:

Location: E1500 to E1600 & N940 to N1000

Project Type:

Road

Work Type: Grading, Surfacing

Date Added: 8/2015 **Description:**

Construct paved shoulders; replace narrow bridges and culvert; flatten

roadside slope.

Last Revised: 8/2019

Comments:

Fund **FFY Federal State Phase** Local Source 2020 **ROW** \$0 \$0 \$125 Local UTIL \$0 \$0 \$250 2021 Local **CONST** \$0 \$0 \$2,300 2021 Local

Federal Total:

\$0

Non-Federal Total:

\$2,675

Grand Total:

\$2,675



FFY

2020

2019 Local

2020 Local

(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

Douglas County

Project Name: Route 1055 Improvements, N1000 to N1180

Fund

Source

Local

Phase

ROW

UTIL

CONST

TIP #: 220

Length (mi): 1.80 KDOT #:

N1000 to N1180 Location:

Project Type:

Road

Work Type: Grading, Surfacing

Date Added: 8/2015

Last Revised: 8/2019

Description:

Construct paved shoulders; replace narrow culvert; flatten roadside slope. **Comments:**

Federal Total:

\$0

Non-Federal Total:

\$2,250

Federal

\$0

\$0

\$0

Grand Total:

State

\$0

\$0

\$0

\$2,250

Local

\$75

\$225

\$1,950

Project Sponsor:

Lawrence

Project Name: 19th Street Reconstruction, O'Connell Rd to Harper St

KDOT #:

TIP #: 229

Length (mi): 0.54

Location: O'Connell Rd to Harper St

8/2019

Project Type:

Road

Work Type: Reconstruction

Date Added: 8/2015

Last Revised:

Description:

Reconstruct & tie into venture park, roundabout at 19th & Harper, construct sidewalk & bike lanes.

Comments:

PE/ROW are each estimated at 10% of Construction

Costs.

Fund **FFY Phase Federal State** Local Source PΕ 2019 Local \$0 \$0 \$275 **ROW** \$0 2019 Local \$0 \$50 2020 Local **CONST** \$0 \$0 \$1,100 \$2,200 2021 Local **CONST** \$0 \$0

Federal Total:

\$0

Non-Federal Total:

\$3,625

Grand Total:

\$3,625



(Includes the Program of Projects for the Lawrence Transit System)

METROPOLITAN PLANNING ORGANIZATION	(211010000 0110 1 1 091 0111 01 1 1 090			. runoic oyocom	/		
Project Sponsor: Lawrence	Project Name: Queens Road, 6th to North City Limits	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 230	KDOT #:	2015	Local	ROW	\$0	\$0	\$600
		2016	Local	PE	\$0	\$0	\$200
Length (mi): 0.75	Location: 6th St to North City Limits	2020	Local	CONST	\$0	\$0	\$3,000
Project Type: Road	Work Type: Reconstruction						
Date Added: 8/2015	Last Revised: 8/2019						
Description:	Comments:						
Construct Queens Road, roundabout at Overland Dr & Queens Rd, construct sidewalk & bike lanes.	PE/ROW are each estimated at 10% of Construction Costs.						
	Updated project description to include roundabout at Overland/Queens.						
		Federal Total:	\$0	Non-Fede Total:	eral \$3,800	Grand Total:	\$3,800
Project Sponsor: Lawrence	Project Name: 23rd Street Reconstruction, Haske to East City Limits	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 234	KDOT #: KA-4473-01	2020	Local	PE	\$0	\$0	\$500
		2021	State	CONST	\$0	\$2,000	\$0
Length (mi): 2.01	Location: Haskell Ave to East City Limits	2021	Local	CONST	\$0	\$0	\$2,500
		2022	State	CONST	\$0	\$2,000	\$0
Project Type: Road	Work Type: Reconstruction	2022	Local	CONST	\$0	\$0	\$2,750
Date Added: 8/2015	Last Revised: 2/2017						
Description:	Comments:						
Reconstruction of street including pavement, storm sewer, geometric improvements and multimodal facilities.	PE/ROW are each estimated at 10% of Construction Costs. Project is part of the 23rd St KDOT/City turn back agreement. This agreement, including final project(s) cost share, has not been finalized to date.						



(Includes the Program of Projects for the Lawrence Transit System)

METROPOLITAN PLANNING ORGANIZATION	· · · · · · · · · · · · · · · · · · ·						
Project Sponsor: KDOT	Project Name: SLT/K-10 West Leg in Douglas County	FFY	Fund Source		ederal	State	Local
TIP #: 236	KDOT #: KA-3634-02	2019	State	PE	\$0	\$4,200	\$0
Length (mi): 1.20	Location: I-70/K10 Junction South to 3500 ft N of K-10/US-40 Junction						
Project Type: Road/Interchange	Work Type: Interchange/Reconstruction						
Date Added: 1/2016	Last Revised: 2/2019						
Description:	Comments:						
Add 2 lanes to existing 2 lanes for a 4 lane freeway section. This will include reconstruction of existing interchange @ KTA (I-70). A mainline ORT (open road tolling) toll plaza on K-10 is included in reconstruction of interchange @ I-70.	Project is authorized for PE only. The total project cost, including all work phases, is estimated at \$83,031,969. This estimate should be used for planning purposes only.						
		Federal Total:	\$0	Non-Federa Total:	\$4,200	Grand Total:	\$4,200
Project Sponsor: KDOT	Project Name: SLT/K-10 West Leg in Douglas County	FFY	Fund Source	Phase i	- ederal	State	Local
TIP #: 237	KDOT #: KA-3634-03	2018	State	PE	\$0	\$10,800	\$0
Length (mi): 7.00	Location: 3500 ft N of K-10/US-40 Junction,to K-10 US-59/Iowa St Junction						
Project Type: Road/Interchange	Work Type: Interchange/Reconstruction						
Date Added: 1/2016	Last Revised: 10/2018						
Description:	Comments:						
Add 2 lanes to existing 2 lanes for a 4 lane freeway section. Includes existing interchanges @ US-40, Bob Billings, Clinton & US-59. New interchange approx8 mi east of Wakarusa/27th St intersection. Kasold Dr intersection will	Project is authorized for PE only. The total project cost, including all work phases, is estimated at \$164,465K. This estimate should be used for planning purposes only.						
be RI-RO [Project #109]		Federal Total:	\$0	Non-Federa Total:	\$10,800	Grand Total:	\$10,800



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

Douglas County

Project Name: Bridge 0964-1000 replacement

TIP #: 248

Length (mi): 0.15

Project Type:

Bridge

Date Added: 10/2018

Description:

Replace load posted, fracture critical

bridge

KDOT #:

E 1000 Road 0.4 mi. South of Route Location:

458

Work Type: Bridge Replacement, Grading

Last Revised:

Comments:

Funding amounts assume all Local funding. Will apply for Off System bridge replacement Federal

funding.

ı	FFY	Fund Source	Phase	Federal	State	Local
2	2020	Local	PE	\$0	\$0	\$110
2	2020	Local	ROW	\$0	\$0	\$15
2	2021	Local	UTIL	\$0	\$0	\$75
2	2021	Local	CONST	\$0	\$0	\$1,600

Federal Total:

Non-Federal Total:

\$1,800

Grand Total:

\$1,800

Project Sponsor:

KDOT

Intersection

TIP #: 302

Length (mi): 0.00

Project Type:

Date Added: 4/2019

Description:

Upgrade signal with interconnectedflashing beacons for US-40/K-10. Determine que locations for 3 DMS boards. 1) btwn Kasold & US-59 WB, 2) btwn Bob Billings & Clinton Pkwy, and 3) east of US-59 for WB traffic.

Project Name: Intersection of US-40/K-10 at

Wakarusa/27th Street Signal

KA-5208-01 KDOT #:

Location: 1) btwn Kasold & US-59 WB, 2) btwn

Bob Billings & Clinton Pkwy, and 3)

east of US-59 for WB traffic

Work Type: Signal

Last Revised:

Comments:

FFY	Fund Source	Phase	Federal	State	Local	
2019	State	PE	\$0	\$42	9	\$0
2019	State	ROW	\$0	\$25	:	\$0
2020	State	UTIL	\$0	\$13	9	\$0
2020	State	CONST	\$0	\$447	9	\$0

Federal Non-Federal Grand \$527 \$527 Total: Total: Total:



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Independence Inc.	Project Name:	Independence Inc., FTA 5311	FFY	Fund	Phase	Federal	State	Local
TTD #1. 404		Operating & Capital	2019	Source Local	OPERATING	\$0	\$0	\$3:
TIP #: 401	KDOT #:			State	OPERATING	\$0	\$22	\$(
Length (mi):	Location: Lawrence			5311	OPERATING	\$55	\$0	\$(
			2019	Local	CAPITAL	\$0	\$0	\$
Project Type: Transit/Paratransit	Work Type: O	perating/Capital	2019	5311	CAPITAL	\$31	\$0	\$(
			2020	Local	OPERATING	\$0	\$0	\$30
Date Added: 10/2014	Last Revised:	8/2019	2020	State	OPERATING	\$0	\$24	\$(
Description:	Comments:		2020	5311	OPERATING	\$60	\$0	\$(
Operating and Capital	2019 – 5311 Adm 5311 Admin- \$31	nin- \$32, Local Admin \$8; 2020 – , Local Admin \$8;						
	Purchase Ramp V	an in FY2020.						
			Federal Total:	\$146	Non-Feder Total:	al _{\$123}	Grand Total:	\$269
Project Sponsor: Lawrence Transit	Project Name:	Lawrence Transit Operating Funds	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 402	KDOT #: 530	7 FTA	2012	Local	OPERATING	\$0	\$0	\$13
Longth (mile 0.00			2012	5307	OPERATING	\$50	\$0	\$(
Length (mi): 0.00	Location: Law	rence	2014	Local	OPERATING	\$0	\$0	\$18
			2014	5307	OPERATING	\$100	\$0	\$1
			2014	3307	0. 2. 0	Ψ-00		
Project Type: Transit/Paratransit	Work Type: O	perating		Local	OPERATING	\$0	\$0	\$13
			2015			·	\$0 \$0	\$18 \$1
Date Added: 10/2014	Last Revised:	perating 10/2016	2015 2015	Local	OPERATING	\$0	•	
Date Added: 10/2014 Description:	Last Revised: Comments:	10/2016	2015 2015 2016	Local 5307	OPERATING OPERATING	\$0 \$100	\$0	\$(
Project Type: Transit/Paratransit Date Added: 10/2014 Description: Operating and Preventative Maintenance activities.	Last Revised: Comments: Federal Transit 5:		2015 2015 2016	Local 5307 Local	OPERATING OPERATING OPERATING	\$0 \$100 \$0	\$0 \$0	\$1,52



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor: Lawrence Transit	Project Name: Lawrence Transit Capital Assistance	FFV	Fund Source	Phase F	ederal	State	Local
TIP #: 403	KDOT #: PT-0701	2018 S		CAPITAL	\$0	\$500	\$0
		2018 S	tate-PT	OPERATING	\$0	\$699	\$0
Length (mi):	Location: Lawrence	2019 S	tate-PT	CAPITAL	\$0	\$500	\$0
		2019 S	tate-PT	OPERATING	\$0	\$759	\$0
Project Type: Transit/Paratransit	Work Type: Special Work	2020 S	tate-PT	CAPITAL	\$0	\$500	\$0
		2020 S	tate-PT	OPERATING	\$0	\$759	\$0
Date Added: 10/2014	Last Revised: 10/2018	2021 S	tate-PT	CAPITAL	\$0	\$500	\$0
Description: Comprehensive Transportation Program.	Comments: StateCTP	2021 S	tate-PT	OPERATING	\$0	\$759	\$0
Purchase of replacement paratransit vehicles.							
		Federal \$0 Total:		Non-Federa Total:	al \$4,976	Grand Total:	\$4,976
Project Sponsor: Lawrence Transit	Project Name: Lawrence Multi-Modal Center	FEV	Fund Source	Phase F	ederal	State	Local
TIP #: 410	KDOT #:	2018 L	ocal	PE	\$0	\$0	\$1,000
Loughly (miles		2019 Lo	ocal	CONST	\$0	\$0	\$1,000
Length (mi):	Location: Lawrence	2020 Lo	ocal	CONST	\$0	\$0	\$2,000
Project Type: Transit/Paratransit	Work Type: Capital						
Date Added: 7/2016	Last Revised: 10/2018						
Description:	Comments:						
Transit Facility							
		Federal \$0		Non-Federa Total:	al \$4,000	Grand Total:	\$4,000



(Includes the Program of Projects for the Lawrence Transit System)

METROPOLITAN PLANNING ORGANIZATION	(2110100000 0110 1 10910111 01 1 10900						
Project Sponsor: Lawrence Transit	Project Name: Lawrence Transit Operating Funds	FFY	Fund Source	Phase F	ederal	State	Local
TIP #: 412	KDOT #: 5307 FTA	2017	Local	OPERATING	\$0	\$0	\$1,524
		2017	5307	OPERATING	\$2,135	\$0	\$0
Length (mi):	Location: Lawrence	2018	Local	OPERATING	\$0	\$0	\$1,690
		2018	5307	OPERATING	\$2,237	\$0	\$0
Project Type: Transit/Paratransit	Work Type: Operating	2019	Local	OPERATING	\$0	\$0	\$1,860
		2019	5307	OPERATING	\$2,447	\$0	\$0
Date Added: 10/2014	Last Revised: 4/2019	2020	Local	OPERATING	\$0	\$0	\$1,864
Description:	Comments:	2020	5307	OPERATING	\$2,468	\$0	\$0
Operating and Preventative Maintenance activities.	Federal Transit 5307 Funds. 2020-2022 amounts are	2021	Local	OPERATING	\$0	\$0	\$1,957
activities.	projected. Linked with project #402.	2021	5307	OPERATING	\$2,591	\$0	\$0
		2022	Local	OPERATING	\$0	\$0	\$2,055
		2022	5307	OPERATING	\$2,720	\$0	\$0
		Federal Total:	514,598	Non-Federa Total:	\$10,950	Grand Total:	\$25,548
Project Sponsor: Bert Nash Community Mental	Project Name: Bert Nash, FTA 5310 Capital Funds	FFY	Fund Source	Phase F	ederal	State	Local
TIP #: 415 Health Center	KDOT #:	2019	Local	CAPITAL	\$0	\$0	\$19
Length (mi): 0.00	Location: Lawrence	2019	5310	CAPITAL	\$78	\$0	\$0
Project Type: Transit/Paratransit	Work Type: Capital						
Date Added: 8/2018	Last Revised:						
Description:	Comments:						
Purchase a Ramp Mini-Van (\$40) and a Full Size Van (\$57).	80/20 federal/local split						
		Federal	578	Non-Federa	ı l \$19	Grand	\$97



(Includes the Program of Projects for the Lawrence Transit System)

METROPOLITAN PLANNING ORGANIZATION	(Includes the Program of Project	cts for the Lawrei	nce Transit Syster	m)		
Project Sponsor: Lawrence	Project Name: 19th & Iowa St Ped/Bike Underpas	FFY Sou		Federal	State	Local
TIP #: 505	KDOT #: TE-0459-01	2018 Local	PE	\$0	\$0	\$120
		2018 Local	CONST	\$0	\$0	\$1,181
Length (mi): 0.02	Location: 19th St & Iowa St (US-59) Intersection	2018 TA	CONST	\$1,868	\$0	\$0
Project Type: Transportation Alternatives	Work Type: Pedestrian & Bicycle Work					
Date Added: 12/2017	Last Revised: 8/2018					
Description:	Comments:					
Pedestrian/bicycle underpass	KDOT awarded Transportation Alternatives (TA) grant. Linked with project #203. Pending Advanced Construction.					
		Federal \$1,868	Non-Fed Total:	deral \$1,301	Grand Total:	\$3,169
Project Sponsor: Lawrence	Project Name: Lawrence Safe Routes to School TA Phase 2	Fun FFY Sou	Dhace	Federal	State	Local
TIP #: 506	KDOT #: U-2334-01	2018 Local	PE	\$0	\$0	\$65
		2019 Local	CONST	\$0	\$0	\$100
Length (mi): 1.68	Location: Various sidewalk along 6 streets in Lawrence	2019 TA	CONST	\$394	\$0	\$0
Project Type: Transportation Alternatives	Work Type: Pedestrian & Bicycle Work					
Date Added: 12/2017	Last Revised: 10/2018					
Description:	Comments:					
New sidewalk construction along designated Safe Routes to School. Driveway and sidewalk ramp construction will be included for ADA compliance.	This project will give a space for children to walk and/or bike to school along designated safe routes. The SRTS funding is an 80/20 (KDOT/City) cost share with KDOT contributing a max of \$394,128.					
		Federal \$394 Total:	Non-Fed Total:	deral \$165	Grand Total:	\$559

FFY 2019 TIP | G-14



(Includes the Program of Projects for the Lawrence Transit System)

METROPOLITAN PLANNING ORGANIZATION	(Includes the Program of Projec	ts for the L	_awrence	Transit System)			
Project Sponsor: Lawrence	Project Name: Various Lawrence Sidewalk/Bike/Ped/ADA Ramps	FFY	Fund Source	Phase F	Federal	State	Local
TIP #: 507	KDOT #:	2019	Local	CONST	\$0	\$0	\$600
	_	2019	CDBG	CONST	\$303	\$0	\$0
Length (mi): 0.00	Location: Lawrence	2020	Local	CONST	\$0	\$0	\$750
		2021	Local	CONST	\$0	\$0	\$1,000
Project Type: Pedestrian & Bicycle	Work Type: Pedestrian & Bicycle Work	2022	Local	CONST	\$0	\$0	\$1,000
Date Added: 10/2018	Last Revised:						
Description: Pedestrian, Bicycle, and ADA ramp projects throughout Lawrence including EJ areas. Community Development Block Grant (CDBG) is a competitive HUD program administered by the Lawrence Development Services Department.	Comments: The grouped CDBG only includes awarded competitive funding. CONST funding may be used for additional work tasks. Local funding matching TA project specific funding will be listed separately. Funding based on July 10, 2018 CIP.						
Project Courses	Project Name: Lawrence Loop Shared-Use Paths -	iotai:	\$303 Fund	Non-Federa Total:	\$3,350	Grand Total:	\$3,653
Project Sponsor: Lawrence	8th St to 11th St & 29th St	FFY	Source		Federal	State	Local
TIP #: 508	KDOT #: TE-0470-01	2019	Local	PE	\$0	\$0	\$100
Laurable (miles 0.60	Lagations Oth Chie 11th Chalana abandoned	2020	Local	CONST	\$0	\$0	\$300
Length (mi): 0.60 Project Type: Transportation Alternatives	Location: 8th St to 11th St along abandoned railroad spur & 29th St Haskell Rail Trail to Haskell Ave Work Type: Capital, Pedestrian/Bicycle, Safety	2020	TA	CONST	\$480	\$0	\$0
Date Added: 4/2019	Last Revised: 5/2019						
Description: Design and construction of 10' shareduse path	Comments: KDOT TA Project; FY20; \$480,000 (max.)						
		Federal Total:	\$480	Non-Federa Total:	al _{\$400}	Grand Total:	\$880



(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

Baldwin City

Connectivity Project

TIP #: 509

Length (mi): 0.50

Project Type: Transportation

Alternatives

Eudora

Alternatives

Date Added: 4/2019

Description:

The Elm Street pedestrian sidewalk is to run along the south side of Elm St from Baker University (8th St) across existing Midland Railway Crossing and connecting to existing sidewalk on USD

348 property. A bulb out will be included

at 8th St.

Project Name: West Baldwin Pedestrian/Bike

KDOT #: TE-0472-01

Location: Intersection of 8th Street/Elm St

proceeding westerly to USD 348 property (+/- one-half mile)

Work Type: Pedestrian & Bicycle Work

Last Revised: 5/2019

Comments:

Sidewalks will be improved to ADA standards. The project is to provide connectivity for the community at-large, and more specifically, to provide

elementary students with a safe, pedestrian route.

FFY	Fund Source	Phase	Federal	State	Local
2020	Local	CONST	\$0	\$0	\$235
2020	TA	CONST	\$580	\$0	\$0

Federal Total:

\$580

Non-Federal Total:

\$235

Grand

\$815 Total:

Project Sponsor:

TIP #: 510

Length (mi): 1.34

Project Type: Transportation

Date Added: 4/2019

Description:

Design, engineer, and construct an ADAcompliant, approximately 7,050' long, 8' wide shared-use path.

Project Name: Bluejacket Trail: Phase II

TE-0480-01 KDOT #:

Location: 1201 Cedar St. to 1702 Cypress Ct. in

Eudora

Work Type: Pedestrian & Bicycle Work

Last Revised: 8/2019

Comments:

FFY	Fund Source	Phase	Federal	State	Local
2019	Local	PE	\$0	\$0	\$34
2020	Local	UTIL	\$0	\$0	\$55
2020	Local	CONST	\$0	\$0	\$87
2020	TA	CONST	\$284	\$0	\$0

Federal Total:

\$284

Non-Federal Total:

\$176

Grand Total:

\$460



(Includes the Program of Projects for the Lawrence Transit System)

Project Name: Various Railroad Safety Projects in Fund **Project Sponsor: KDOT FFY Phase** Federal State Local Source the Region 2018 State-AC **CONST** \$0 \$500 \$0 **TIP #:** 600 KDOT #: 2019 HSIP **CONVERSION** \$500 \$0 \$0 Location: Length (mi): **OTHER** 2019 Credit \$0 (\$500)\$0 2019 State-AC **CONST** \$0 \$500 \$0 **Project Type:** Safety **Work Type:** 2020 HSIP **CONVERSION** \$500 \$0 \$0 2020 Credit **OTHER** (\$500)\$0 \$0 **Date Added:** 10/2014 **Last Revised:** 10/2018 2020 State-AC **CONST** \$500 \$0 \$0 **Description: Comments:** 2021 HSIP **CONVERSION** \$500 \$0 \$0 Safety improvements along railroads in This is a master project that would include any 2021 Credit **OTHER** \$0 (\$500)\$0 region as identified by KDOT. These safety projects selected in region. State funds (SF) **CONST** \$500 \$0 2021 State-AC \$0 funds may be used to benefit the region Conversions: 2018 SF to 2019 HSIP, 2019 SF to by working to correct or improve 2020 HSIP, 2020 SF to 2021 HSIP, 2021 SF to 2022 2022 HSIP **CONVERSION** \$500 \$0 \$0 identified safety hazards at public HSIP. 2022 Credit **OTHER** \$0 (\$500)\$0 railway-highway crossing in a proactive manner. **Federal** Non-Federal Grand \$2,000 \$0 \$2,000 Total: Total: Total: **Project Name:** Route 458 HRRR **Project Sponsor: Douglas County** Fund **FFY Federal Phase** State Local Source 2016 Local PΕ \$0 \$0 \$5 **TIP #:** 601 C-4857-01 KDOT #: **ROW** \$0 2017 Local \$0 \$31 Length (mi): 2.00 **Location:** Rte 458 E 1800 Rd. to E 2000 Rd. 2017 Local UTIL \$0 \$375 \$0 **CONST** \$0 \$0 \$129 2018 Local **Project Type:** Safety Work Type: Grading 2018 HSIP **CONST** \$753 \$0 \$0 **Date Added:** 1/2016 Last Revised: 8/2019 **Description:** Comments: Replace nine narrow culverts and Non-participating pavement rehab and entrance remove roadside trees to improve reconstruction not included in listed costs. roadside safety. Federal Non-Federal Grand \$753 \$540 \$1,293 Total: Total: Total:



FFY

2019 Local

2019 HRRR

(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

Douglas County

Project Name: Local Road Safety Plan

Fund

Source

Phase

TIP #: 602

Length (mi):

KDOT #:

Location: County road network

Project Type:

Safety

Work Type: Safety

Date Added: 1/2016

Last Revised: 10/2018

Description:

Safety study of county road network (major collectors) to identify needed safety improvements.

Comments:

Federal Total:

\$36

2018 Local

2018 HSIP

Local

FFY

2018

Fund

Source

Non-Federal Total:

Phase

CONST

CONST

PΕ

\$4

Federal

\$0

\$0

\$100

Federal

\$0

\$36

Grand Total:

\$0

\$0

\$0

State

State

\$0

\$0

\$40

Local

\$14

\$50

\$0

Local

\$4

\$0

Project Sponsor:

Lawrence

Project Name: Massachusetts St, 11th to 14th St

Reconfigure Lanes

TIP #: 604

U-0225-01 KDOT #:

Length (mi): 0.37 **Location:** Massachusetts St: 11th St to 14th St

Project Type:

Safety

Work Type: Mill/Overlay

8/2018

Date Added: 8/2017

Last Revised: Comments:

Description:

Reconfigure lanes for center turn lane and bike amenities.

Federal

Total:

\$100

Non-Federal Total:

\$64

Grand Total:

\$164

FFY 2019 TIP



FFY

2018 State

2018 State

Fund

Source

Phase

PE

ROW

(Includes the Program of Projects for the Lawrence Transit System)

Project Sponsor:

KDOT

Project Name: South Lawrence Trafficway

Widening Study

TIP #: 700

KDOT #: KA-3634-01

Length (mi): 8.40 **Location:** K-10 West Leg in Douglas County US

59/K10/Iowa to I70/KTA/K10 Junction

Project Type:

Other

Work Type: Road Widening

Date Added: 2/2019

Last Revised:

Description:

Comments:

Study K10 becoming a 4-lane freeway. This project will review project area issues, current transportation needs, impacts on current projects, interchange configurations and reevaluate the environmental documentation for the

This project will include traffic analysis, full field survey and Public involvement. This project will include selected R/W acquisition as parcels become available.

Project is authorized for PE & ROW ONLY.

Federal Total:

\$0

Non-Federal Total:

\$4,175

Grand Total:

State

\$4,000

\$175

\$4,175

Local

\$0

\$0

Project Sponsor:

preferred improvements.

KDOT

Project Name: Traffic Study of KTEN Crossing

Entrance and US-59

TIP #: 704

KDOT #: KA-5203-01

Length (mi): 0.00 **Location:** Study the proposed KTEN Crossing

Entrance and US-59 Intersection

Project Type:

Road

Work Type: Planning

Date Added: 4/2019

Description:

Study the proposed KTEN Crossing Entrance and US-59 Intersection.

Last Revised:

Comments:

Fund **FFY Phase Federal State** Local Source 2019 State PE \$0 \$25 \$0

Federal

\$0

\$0

Federal Total:

Non-Federal Total:

\$25

Grand Total:

\$25



(Includes the Program of Projects for the Lawrence Transit System)

Metropolitan Planning Organization	,			, ,			
Project Sponsor: KDOT	Project Name: K-10 (US-40) and 27th St Intersection Study	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 705	KDOT #: KA-3634-08	2019	State	PE	\$0	\$500	\$0
Length (mi): 0.00	Location: K-10 and 27th St						
Project Type: Other	Work Type: Planning						
Date Added: 8/2019	Last Revised:						
Description:	Comments:						
Study for Options on K-10 for Geometric improvements to the at-grade intersection of K-10 (US-40) and 27th Street. Addition or modification of auxiliary lane configurations on 27th Street and potentially K-10.	This project is Authorized for PE Only. The estimated total project cost is \$ 5,750 K which shall be used for planning purposes only.						
. ,		Federal	\$0	Non-Feder	r al	Grand	
		Total:	\$ U	Total:	\$500	Total:	\$500
Project Sponsor: Lawrence	Project Name: Traffic Signal Coordination Study	FFY	Fund Source	Phase	Federal	State	Local
TIP #: 706	KDOT #:	2019	Local	PE	\$0	\$0	\$300
Length (mi): 0.00	Location: Arterial streets						
Project Type: Intersection	Work Type: Operating, Planning, Signal						
Date Added: 8/2019	Last Revised:						
Description:	Comments:						
Provide a comprehensive update to the traffic signal system, optimize operations and development of a long-term city-wide traffic signal coordination and timing program.	Project will improve traffic mobility and efficiency.						
		Federal Total:	\$0	Non-Feder Total:	r al \$300	Grand Total:	\$300