

LOCAL PUBLIC AUTHORITY (LPA) PROJECT DEVELOPMENT MANUAL











2018 Edition

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1.0 Introduction

The purpose of this Manual is to prescribe policies and procedures to be used for the development of state and/or federal aid projects in the State of Kansas. The responsibilities of BLP, other KDOT Bureaus/Districts and the LPAs for these projects are described in this Manual.

1.1 List of Acronyms

The following acronyms are used throughout this LPA Project Development Manual (Manual):

AASHTO – American Association of State Highway and Transportation Officials

ABA – Architectural Barriers Act ADA – Americans with Disabilities Act

ADAAG – 2004 ADA Accessibility Guidelines

BFS – KDOT Bureau of Fiscal Services

BLP – KDOT Bureau of Local Projects

BOCM – KDOT Bureau of Construction and Materials

BPPM – KDOT Bureau of Program and Project Management

CATX – Categorical Exclusion

CCLIP – City Connecting Link Improvement Program (formerly KLINK and GI)

CE – Construction Engineering

CIT – Certified Inspection and Testing

CMS – Construction Management System

DBE – Disadvantaged Business Enterprise

DDIR- Detailed Damage Inspection Report

DSD – Design Summary Document

EA – Environmental Assessment

EIS – Environmental Impact Statement

ER – Emergency Relief

ESS – KDOT Environmental Services Section

FAPG – Federal Aid Policy Guide

FEMA- Federal Emergency Management Agency

FFE – Federal Fund Exchange

FFY – Federal Fiscal Year

FHWA – Federal Highway Administration

FLAP – Federal Lands Access Program

FONSI – Finding of No Significant Impact

FPIL – Final Paid Items List

HCM – Highway Capacity Manual

HRRR – High Risk Rural Roads

HSIP – Highway Safety Improvement Program

- KDOT Kansas Department of Transportation
- KDWPT Kansas Department of Wildlife, Parks, and Tourism
- KTA Kansas Turnpike Authority
- LPA Local Public Authority
- LRFD Load and Resistance Factor Design
- LRSP Local Road Safety Plan
- MPO Metropolitan Planning Organization
- MSE Mechanically Stabilized Earth
- MUTCD Manual on Uniform Traffic Control Devices
- NBI National Bridge Inventory
- NEPA National Environmental Policy Act
- NHS National Highway System
- NSBP National Scenic Byways Program
- NTP Notice to Proceed
- PE Preliminary Engineering
- PIF Public Interest Finding
- PIL Paid Items List/Bid Tabs
- PM BLP Project Manager
- PMCP-C Project Manager Certification Program Construction
- PPC Proprietary Product Certification
- PROWAG Public Rights-of-Way Accessibility Guidelines
- PRSA Practical Road Safety Assessment
- PS&E Plans, Specifications, and Estimate
- QBS Qualification Based Selection
- ROD Record of Decision
- ROW Right of Way
- ROWCP Right of Way Certification Program
- RSA Road Safety Audit
- SHSP Strategic Highway Safety Plan
- S.O.M. KDOT's Standard Operating Manual
- STBG Surface Transportation Block Grant Program (formerly STP)
- STE State Transportation Engineer
- STIP State Transportation Improvement Program
- STP Surface Transportation Program
- TEAP Transportation Engineering Assistance Program
- TIP Transportation Improvement Program
- TMA Transportation Management Area
- TRB Transportation Research Board
- U.S.C. United States Code
- USFWS United States' Fish and Wildlife Service

1.2 <u>Authority</u>

This document has been developed under the authority granted by <u>KSA 68-401</u>, <u>68-402(b)</u> and <u>68-404</u>, <u>23</u> <u>U.S.C. 109 (p)</u>, and the authority granted under the FHWA letter dated August 21, 1992.

1.3 Policy

The Secretary will follow sound engineering, administrative, and managerial practices in the expenditure of federal, state, and local funds and will comply with all applicable federal and state laws in the planning, development, construction, and maintenance of projects as outlined in this Manual. The Secretary has delegated authority to the Director of the Division of Engineering and Design to administer preconstruction activities of projects which are developed following procedures outlined in this Manual. This delegation includes the flexibility in selection of criteria, procedures, and operations as allowed by FHWA. The Secretary may delegate the authority to other Divisions to operate under this Manual as appropriate or as described in the S.O.M.

1.4 Applicability

Projects covered by this Manual include new construction, reconstruction and resurfacing, restoration, and rehabilitation (3R) types of improvements utilizing state or federal dollars which may either be let by KDOT or the LPA.

Other non-traditional transportation projects such as historic building restorations, etc. are not covered in detail in this manual although some of the typical procedures may apply. These projects may be considered on a project by project basis under the direction of the PM.

Project items covered by this Manual include, but are not limited to: Plans, specifications, estimates, surveys, contract awards, design, inspections, construction, and construction final inspection of projects which are financed with state and/or federal funds on state, county and city routes (including City roads functionally classified as principal arterials which are included on the NHS according to MAP-21.) Special procedures need to be followed for all local projects on the NHS, see *Section 15.0 LPA-Administered Procedures* of this Manual. This Manual also addresses the project selection and approval process followed by local governments and KDOT. Other projects may be administered under these procedures when permitted by the FAPG directives.

1.5 KDOT-Let Projects

Federally funded locally administered projects are administered under exempt-oversight procedures in which the authority has been delegated from the FHWA to KDOT to develop projects under state approved standards and specifications. All federal funded projects administered by BLP will be let by KDOT unless the LPA has been certified and approved to let federal funded projects. For more information refer to *Section 15.0 LPA-Administered Procedures* in this Manual.

State or federally funded projects let by KDOT will be administered in accordance with the requirements set forth in this Manual. Lettings are held monthly, usually on the third Wednesday at 1:30 PM.

KDOT streams audio of all bid lettings. This allows computers connected to the Internet to listen to live audio for the public reading of Contractor's proposed bids and announcements. Computers will connect to this multicast stream and play the audio via Windows Media Player[™]. This stream will be a live broadcast, but due to data transfer latency, a delay of approximately 10 to 30 seconds is typical.

Users wanting to connect and listen to this stream need to open their web browser, and enter the following address:

http://bidlettinglive.ksdot.org/BidLettingLive/BidLetting.htm

The multicast stream will only be active approximately 15 minutes before the letting time the day of the letting and the session will end after the bid opening.

1.6 Locally Administered Projects

Locally administered projects (LPA-Administered) procedures provide a method by which KDOT can delegate administrative responsibilities of a Project to a LPA while maintaining oversight and federal-aid eligibility verification responsibilities. The respective responsibilities of both KDOT and the LPA are detailed in *Section 15.0 LPA-Administered Procedures* in this Manual.

When a local unit of government performs the project administration for federal and/or state-aid construction projects, KDOT must have assurances the locals is complying with the requirements of federal and state laws and regulations. This is accomplished by limited reviews of plans and specifications and a series of project development phase summary documents. Information related to the project development phase summary documents is included in this Manual and are the mechanism with which the LPA certifies that appropriate action has been completed. Project responsibilities associated with obligation of funds, environmental classification determinations, and the processing of NEPA documents remain with KDOT and FHWA.

1.7 Force Account

A Federally-Funded Force Account project is defined as a project where "the direct performance of highway construction work is completed by a LPA using their labor, equipment, materials, and supplies under their direct control." (23 CFR 635.203) In essence, the LPA becomes the Contractor for the project. See Section 12.0 Force Account in this Manual for more information regarding force account procedures.

1.8 Federal Fund Exchange

The federal fund exchange program is a voluntary program that allows a LPA to trade all or a portion of its federal fund allocations in a specific federal fiscal year with KDOT in exchange for state transportation dollars or with another LPA in exchange for their local funds.

Only LPAs that are eligible to receive a federal funding allocation may participate in the federal fund exchange program. Eligible LPAs include all counties in the state and cities with population greater than 5,000 that are not located in a TMA. Currently, the only TMAs in Kansas are the Mid America Regional Council (MARC – Kansas City Region) and the Wichita Area Metropolitan Planning Organization (WAMPO).

Participation in the program is optional. An eligible LPA may choose to exchange its federal funds, or it may use the funds to develop a federal-aid project following the established procedures. See *Section 18.0 Federal Fund Exchange* in this Manual for more information regarding federal fund exchange procedures.

1.9 Maintenance of Website Links

This manual contains links to websites that are not managed by the Bureau of Local Projects. If a broken link is found, we would appreciate being informed of the issue.

Please report any broken links to <u>mailto:KDOT.LPePlans@ks.gov</u>.

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2.0 <u>Programming</u>

2.1 Federal Funding

This chapter describes the funding programs, processes, documents, and approvals necessary for obtaining federal funds through KDOT, including discretionary or demonstration funds, otherwise known as earmarks. Federal funds are made available to the LPAs each federal fiscal year, October 1 through September 30. A portion of the federal-aid transportation dollars that are made available to the State of Kansas are shared with LPAs. The "pass-through" of federal funds is comprised of the STBG. The funds under this program are distributed to cities and counties based on federal law, state statute, or the policy of KDOT and comprise the "obligation authority" or "allocation" that is distributed to each LPA.

STBG funds are allocated to each of the counties in the state in accordance with <u>KSA 68-402(b)</u>, which provides for the distribution to be in the same proportion as the Special City and County Highway Fund and the County Equalization and Adjustment Fund.

LPAs may also apply to KDOT for federal-aid funding from competitive programs. These funding programs will be discussed in detail later in this section.

2.1.1 Federal Fund Exchange

The Federal Fund Exchange Program is a voluntary program that allows a LPA to trade all or a portion of its federal fund allocations in a specific federal fiscal year with KDOT in exchange for state transportation dollars or with another LPA in exchange for their local funds. This funding program will be discussed in detail in *Section 18.0 Federal Fund Exchange* of this Manual.

2.1.3 Surface Transportation Block Grant Program (STBG)

This section describes the funding programs, processes, documents, and approvals necessary for an LPA to obtain STBG funds through KDOT. STBG funds are made available for the federal fiscal year, October 1 through September 30. Any LPA project funded in whole or in part by STBG funds shall be developed following established procedures outlined in *Section 5.0 Plan Development* in this Manual.

STBG provides flexible funding that may be used by State and localities for projects to preserve and improve the conditions and performance on any Federal-aid highway, bridge and tunnel projects on any public road, pedestrian and bicycle infrastructure, and transit capital projects, including intercity bus terminals. These funds can be used on eligible project expenses related to preliminary engineering, environmental, right-of-way, non-betterment utility relocation/rehabilitation, construction, and construction engineering. However, BLP policy is for STBG funds to be used toward construction and CE expenses only and for typical improvements such as upgrading an existing road, roadway reconstruction, resurfacing, ADA/sidewalk/multi-use path improvements, and bridge projects. Typically, STBG funds are available to finance up to 80% of eligible project costs with a minimum 20% match from the LPA.

2.1.3.1 STBG Small Urban

Pursuant to 23 USC 133(d)(3), after required program deductions all STBG small urban funds must be divided between urbanized areas of 200,000 or more in population and the remaining 1st class cities (population over 5,000 less than 200,000) in the State.

2.1.3.2 STBG County

STBG funds are allocated to each of the counties in the state in accordance with <u>KSA 68-402(b)</u>, which provides for the distribution to be in the same proportion as the Special City and County Highway Fund and the County Equalization and Adjustment Fund.

2.1.3.3 Transportation Management Area (TMA)

The STBG funding available within a TMA is set by Federal law and those funds may only be used within the planning area of the TMA. In Kansas the TMA's are Mid America Regional Council (MARC) and Wichita Area Metropolitan Planning Organization (WAMPO).

2.1.3.4 Off-System Bridge Program

Federal law and regulations require that not less than 15 percent of a state's apportionment of STBG funds will be used for replacement or rehabilitation of eligible bridges located on a public road that is not on the federal-aid system. To comply with this requirement, KDOT has established an Off-System Bridge Program. The federal funds for this program are set aside prior to distribution of the remaining federal apportionment to eligible LPAs. The program is competitive and local agencies are required to apply for the funds. Projects will be selected for the program from the applications received during the annual application period. Projects approved for the program that fail to meet the fiscal year bid letting must re-apply for funding in a future fiscal year.

To be eligible for the program, the following apply:

- The bridge must have a current NBI inspection report.
- The bridge is only eligible if it is located on a road/street functionally classified as a rural minor collector, rural local road, or urban local street.

This is a federal program and the participation will be maximum 80 percent federal and minimum 20 percent local funding for Construction and CE.

Interested officials may submit an application to BLP for consideration for the Off-System Bridge Program. To be considered for an Off-System Bridge Project, the following documents will be required at the time of application:

- The completed Local Off-System Bridge Program (KDOT Form 1332) application form.
- A scale map of the bridge location.
- A detailed cost estimate.

After the announcement of the selected projects, the LPA must submit a completed <u>Project Programming</u> <u>Request (KDOT Form 1302)</u> to BLP. The PM will coordinate with the LPA in determining an appropriate letting date and project schedule.

2.1.4 Congestion Mitigation and Air Quality Improvement (CMAQ) Program

The Congestion Mitigation and Air Quality Improvement (CMAQ) Program is a federal program that funds transportation projects or programs which contribute to improved air quality and to relieve congestion. CMAQ projects must follow federal laws and regulations. Although funded by FHWA, if the LPA is an urbanized transit agency the CMAQ project can be administered by the Federal Transit Administration (FTA) by transferring the funds from FHWA to Federal Transit Administration (FTA).

Eligibility for CMAQ funds requires a project to be included in an MPO's current Long-Range Transportation Plan and TIP. In nonattainment and maintenance areas, the project must meet the conformity provisions contained in Section 176(c) of the Clean Air Act and the transportation conformity rule contained in 40 CFR Parts 51 and 93. In addition, all CMAQ projects need to follow the NEPA requirements (explained in further detail in *Section 4.0 Environmental* in this Manual) and meet basic eligibility requirements for funding under <u>Title 23, U.S.C.</u> and <u>Title 49, U.S.C.</u>.

CMAQ is a reimbursement program. For LPA-Administered projects, KDOT will reimburse the LPA based on eligible expenses as incurred. In most cases, CMAQ projects require a 20% minimum local match. For KDOT-Administered projects, project payments are made directly to the Contractor following established payment procedures.

The funds for CMAQ projects programmed for a designated fiscal year must be obligated within that year. For example, if a project is programmed to let in FFY 2018, the funds must be obligated between October 1, 2017 and September 30, 2018. Any portion of the funding not obligated by this date may no longer be available.

Guidance for CMAQ funded projects can be found at: FHWA CMAQ Guidance

2.1.4.1 CMAQ – Non-Construction Project

Examples of typical CMAQ funded purchase type projects are alternative fuel vehicles, Intelligent Transportation Systems (ITS), and other Special Federal Funding. Contact the PM for procedures related to CMAQ Non-Construction Projects.

2.1.5 Highway Safety Improvement Program (HSIP)

SAFETEA-LU established the Highway Safety Improvement Program (HSIP) as a Federal-aid program. The overall purpose of this program is to achieve a significant reduction in traffic fatalities and serious injuries on all public roads through the implementation of infrastructure-related highway safety improvements.

The specific provisions pertaining to the HSIP, are defined in <u>Section 1112 of MAP-21</u>, which amended <u>Section 148 of Title 23 United States Code</u> to incorporate these provisions. These requirements include the development of **Strategic Highway Safety Plans (SHSPs)**, in consultation with other key State and local highway safety stakeholders, and several reporting requirements. These requirements were continued in Section 1113 of FAST-ACT.

2.1.5.1 Railway-Highway Crossings Program

As part of the HSIP, funds are set aside each fiscal year for the <u>Railway-Highway Crossings Program (Section</u> <u>130 of Title 23 U.S.C.</u>). These funds provide for the elimination of hazards and the installation of protective devices at public railway-highway crossings. For more information regarding this program contact KDOT Coordinating Section in the Bureau of Design.

2.1.5.2 High Risk Rural Roads (HRRR)

The High Risk Rural Roads (HRRR) program is intended to improve safety where crashes have been a problem or have a potential to increase in the future. Projects funded through this competitive program receive 90% matching federal funds with maximum dollar amounts decided by committee. Periodically, BLP will request applications for HRRR projects. Projects can fit into three categories: site-specific, road safety assessment (RSA), or systemic corridor improvement.

For more information about HRRR, please refer to *Section 19.0 HRRR* in this Manual.

2.1.5.3 Transportation Engineering Assistance Program (TEAP)

The Traffic Engineering Assistance Program (TEAP) is a federally funded program that allows local units of government to have traffic safety studies performed at no cost to the LPA. For additional information about this program, please refer to *Section 14.0 TEAP* in this Manual.

2.1.6 <u>Emergency Relief Program (ER)</u>

The Emergency Relief (ER) program is intended to provide funding to help with repairs on federal aid routes due to a state and nationally recognized natural disaster. Additional information regarding this program can be found in *Section 13.0 Emergency Relief* in this Manual.

2.1.7 Innovative Bridge Research and Deployment Program (IBRD)

The Innovative Bridge Research and Deployment Program (IBRD) provides funding for the promotion, demonstration, evaluation, and documentation of the application of innovative designs, materials, and construction methods in the construction, repair, and rehabilitation of bridges and other highway structures. Funds may be used for costs of preliminary engineering, repair, rehabilitation, or construction of bridges or other highway structures, and costs of project performance evaluation and performance monitoring of the structure following construction.

2.1.8 National Scenic Byways Program (NSBP)

The National Scenic Byways Program (NSBP) is a collaborative effort established to help recognize, preserve and enhance selected roads throughout the United States. The laws guiding implementation of the program can be found in <u>Section 162 of Title 23 U.S.C.</u> The NSBP recognizes roads having outstanding scenic, historic, cultural, natural, recreational, and archaeological qualities. NSBP funding supports projects that manage and protect these intrinsic qualities, interpret these qualities for visitors, and improve visitor facilities along byways. The grants are made available to States and Indian Tribes to implement projects on highways designated as National Scenic Byways or All-American Roads, or as State or Indian tribe scenic byways. Projects submitted for consideration should benefit the byway's travel experience, whether it will help manage the intrinsic qualities that support the byway's designation, shape the byway's story, interpret the story for visitors, or improve visitor facilities along the byway.

2.1.9 Federal Lands Access Program (FLAP)

Definition

Federal lands access transportation facility— A public highway, road, bridge, trail, or transit system that is located on, is adjacent to, or provides access to Federal lands for which title or maintenance responsibility is vested in a State, county, town, township, tribal, municipal, or local government.

The Federal Lands Access Program was established in <u>Section 204 of Title 23 U.S.C.</u> to improve transportation facilities that provide access to, are adjacent to, or are located within Federal lands. Project selection is determined by a Program Decision Committee (PDC). The committee is composed of a representative of the Central Federal Lands Highway Division (CFLHD), a representative of KDOT, and a representative of the Kansas Association of Counties (KAC). This committee will make programming decisions for the funds.

There is no specified regular date or time of year when a call of projects is issued. This is determined based on fund availability. The CFLHD issues the call when the funds are available and after notification from the PDC to do so.

The application along with other pertinent information about the program, please visit the following website: <u>https://flh.fhwa.dot.gov/programs/flap/</u>

Eligible activities

- Transportation planning, research, engineering, preventive maintenance, rehabilitation, restoration, construction, and reconstruction of Federal lands access transportation facilities located on or adjacent to, or that provide access to, Federal land, and—
 - adjacent vehicular parking areas;
 - acquisition of necessary scenic easements and scenic or historic sites;
 - provisions for pedestrians and bicycles;
 - environmental mitigation in or adjacent to Federal land to improve public safety and reduce vehicle-caused wildlife mortality while maintaining habitat connectivity;
 - construction and reconstruction of roadside rest areas, including sanitary and water facilities; and
 - other appropriate public road facilities, as determined by the Secretary
- Operation and maintenance of transit facilities.
- Any transportation project eligible for assistance under title 23 of the United States Code that is within or adjacent to, or that provides access to, Federal land.

2.1.10 Transportation, Community, and System Preservation Program (TCSP)

The Transportation, Community, and System Preservation (TCSP) Program provides funding for a comprehensive initiative including planning grants, implementation grants, and research to investigate and address the relationships among transportation, community, and system preservation plans and practices and identify private sector-based initiatives to improve those relationships.

2.1.11 Truck Parking Facilities Discretionary Program

The Truck Parking Facilities Discretionary Program authorizes a wide range of eligible projects and activities, ranging from construction of commercial motor vehicle (CMV) spaces and other capital improvements that facilitate CMV parking including the use of intelligent transportation systems (ITS) technology to increase information on the availability of both public and private CMV parking spaces. For purposes of this program, long-term parking is defined as parking available for 10 or more consecutive hours.

2.1.12 National Highway Performance Program (NHPP)

The FAST Act continues the National Highway Performance Program, which was established under MAP-21. The NHPP provides support for the condition and performance of the National Highway System (NHS), for

the construction of new facilities on the NHS, and to ensure that investments of Federal-aid funds in highway construction are directed to support progress toward the achievement of performance targets established in a State's asset management plan for the NHS.

2.2 State Funding

State-funded transportation projects administered by BLP include CCLIP projects, and Economic Development (ED) projects. In some cases, State funds may be used for a transportation project outside of the programs listed above.

2.2.1 <u>City Connecting Link Improvement Program (CCLIP) Projects</u>

The City Connecting Link Improvement Program (CCLIP) is a federal and state-funded program that provides funds to cities to address deficiencies or improve a City Connecting Link on the State Highway System. A City Connecting Link is defined as any routing of the State Highway System that is located within the corporate limits of a City. All City Connecting Links are eligible under this program except those on the Interstate System and fully controlled access sections on the Freeway System.

The City Connecting Link Improvement Program consists of three program categories that each target specific types of improvements:

2.2.1.1 Surface Preservation (SP)

(Previously known as KLINK) This fund category is intended to address deficiencies in or extend the life of the driving surface. Project scopes may consist of overlay, mill and overlay, pavement patching, joint repair, seals, or similar surface maintenance work. Parking lanes may be included. Construction of ADA curb ramps, as required by Federal Regulation and Department of Justice guidance, will be included regardless of the funding source. Bridge improvements, curb and gutter repair or replacement, drainage improvements, construction or improvement of sidewalks beyond the ADA ramps, or geometric improvements may be included in a project but shall not be eligible for program funding.

Additional information regarding this program can be found in *Section 20.0 CCLIP-SP* in this Manual.

2.2.1.2 Pavement Restoration (PR)

This fund category is intended to address deficiencies in the road surface that are too extensive or expensive to be addressed by the measures under the SP category. Actions under this category could include full-depth pavement replacement of the entire driving surface or extensive pavement rehabilitation. Other related improvements, such as curb and gutter repair/replacement, storm sewer, parking lanes, or sidewalk construction may be included in the scope of projects and are eligible for the funding. Typically, PR projects will not include any modification of the roadway geometrics other than restoring appropriate cross section.

Additional information regarding this program can be found in Section 16.0 CCLIP in this Manual.

2.2.1.3 Geometric Improvement (GI)

This category is intended to address a safety, capacity, or operational need that can be addressed by changing the roadway geometrics. Examples of projects under this category include, but are not limited to, intersection reconstruction to reduce encroachments over the curb from off-tracking of turning trucks; addition or extension of turn lanes; widening of the roadway to accommodate larger vehicles; or sight distance improvements.

Additional information regarding this program can be found in *Section 16.0 CCLIP* in this Manual.

2.2.2 Economic Development Projects

The ED Program is administered by the Bureau of Program and Project Management. ED projects that are on the State System will be administered by BLP or KDOT Road Design. Other ED projects may be administered by KDOT Corridor Management.

ED projects for which project development will be administered by BLP shall adhere to the same BLP project review process that other State-funded KDOT-let projects follow. For more details regarding project development, see *Section 5.0 Plan Development* in this Manual.

2.3 Public Involvement

The LPA is responsible for public involvement in the selection/prioritization process, which is commensurate with the scope and complexity of the proposed project. At a minimum, public involvement should include a public notice indicating when a governing body will be making a decision on reviewing needs, selecting projects and setting priorities for federal aid projects.

In later stages of project development, more public involvement may be warranted. The public involvement in the project development process will be in accordance with KDOT's publication <u>"Sharing the Future:</u> <u>Public Involvement in the Kansas Transportation System"</u>.

More complex projects, or those that have a high potential for environmental impact, may require early and extensive public involvement and extensive documentation in accordance with <u>Code of Federal Regulations</u>, <u>Title 23 CFR, Part 771</u>. Documentation in these cases may be in the form of either an EIS (Class I) or an EA (Class III). The public involvement process flow charts included in KDOT's <u>"Sharing the Future: Public</u> <u>Involvement in the Kansas Transportation System"</u> provides the process used to categorize projects along with the sequence of events that need to be completed for each classification.

See KDOT's Design Manual, Volume I, Part A, Section 5.9 and the KDOT publication <u>"Sharing the Future:</u> <u>Public Involvement in the Kansas Transportation System</u>" for additional information.

2.4 <u>Request for Projects</u>

The Local Public Authority (LPA) is required to submit a Project Request to BLP to program a Federal or State funded project. The project request form must be completed in its entirety, including required attachments and/or supporting information, and submitted to BLP.

BLP will review the request and verify that the project is eligible for funding. The project must meet certain Federal and/or State Guidelines to be eligible for funding. The LPA will be contacted if clarification or more information is required to complete the review. After the review is completed and approved, the project will be assigned a KDOT Project Number and a preliminary project schedule will be established. The project agreement process will also be initiated.

Once the project has been programmed, the project will be administered by BLP in accordance with this Manual.

2.4.1 Construction Project

For infrastructure construction projects, the LPA is required to submit a completed <u>Project Programming</u> <u>Request (KDOT Form 1302)</u> to BLP.

2.4.2 Non-Infrastructure (Procurement) Project

For non-infrastructure or procurement projects, the LPA is required to submit a <u>Non-Infrastructure Project</u> <u>Request (KDOT Form 1312)</u> to BLP.

2.5 **Project Agreements**

For local projects administered by KDOT and/or funded by Federal or State funds, a project agreement is executed between KDOT and the LPA. Project agreements are initiated by KDOT and sent electronically to the LPAs approximately one year before project letting.

2.5.1 County Umbrella Agreements

KDOT and counties have executed umbrella agreements in the past pursuant to KSA 68-402b which allow for the Secretary to administer and let federal-aid projects for the County. These agreements cover all situations where the County requests a federal-aid project on their system and the project is funded with federal-aid at an 80% federal, 20% local ratio and there is no maximum on the federal funds obligated for the project. For any project in a county that does not fall under the current umbrella agreement with KDOT, a project agreement will be drafted and sent electronically to the LPA.

2.5.2 Project Agreements

Project agreements will be executed for all local projects administered by KDOT and/or funded by Federal or State funds, unless they are covered by a County Umbrella Agreement. Project agreements are initiated by KDOT and will be sent to the LPA electronically. The LPA will be asked to execute two copies of the project agreement and mail both back to KDOT for execution. The LPA will receive a copy once the agreement is fully executed.

2.5.3 Supplemental Agreements

Supplemental agreements will be prepared when necessary to change or correct the terms of the original project agreement. The most common reason to supplement a project agreement is a change in funding or scope. Supplemental agreements will be initiated by KDOT and will follow the same process as project agreements.

3.0 Preliminary Engineering (PE) Consultant Selection and Agreement

3.1 Introduction

The LPA may engage consultants to perform engineering and design related services to develop a Federalaid and/or State-aid funded project. The LPA is encouraged to consult with BLP during the project programming process to identify if preliminary engineering (PE) is eligible to be a participating item for a project.

3.2 Participating

Qualification Based Selection (QBS) procedures must be followed when procuring engineering and design related services using federal or state funds where those services are directly related to a construction project. Therefore, the LPA must follow the selection and contracting provisions of the 23 CFR 172 when PE is a participating project cost. This regulation requires contracts for engineering design services utilizing federal/state funds to be awarded based on demonstrated competence and qualifications for the type of professional services required and negotiation of a fair and reasonable compensation.

Upon confirmation that PE is a participating work phase, BLP will send a QBS selection packet that contains instructions to guide the LPA through the QBS process.

To be reimbursed for PE as a participating work phase, QBS procedures must be followed. The LPA will make their consultant selection from the approved list of consultants furnished by KDOT for participating PE services (see link). <u>Preliminary Engineering Pre-Qualified Consultant List - by Category</u>

3.2.1 <u>QBS Process</u>

QBS is required by state statute when federal **or** state dollars are involved in the PE and/or CE of a project. The LPA can use the QBS process for PE and CE concurrently providing the LPA informs the qualified firms at the time of soliciting for the project. The LPA must obtain the current edition of the **Desk Reference for Quality Based Selection of Consultants** from KDOT BLP prior to initiating the QBS process. This information is available at the following link:

http://www.ksdot.org/Assets/wwwksdotorg/bureaus/burLocalProj/Consultant-Selection/PE%20selection%20process%20packet.pdf

This document will provide detailed instructions for the entire QBS process.

3.2.2 Agreement/ Supplemental Agreement

After BLP's approval of the Consultant's proposal, a three-party Agreement is created by KDOT between the Consultant, the LPA and KDOT. Three original copies of the Agreement are sent to the Consultant for signatures. Once the three copies of the Agreement are signed by the Consultant, they forward them to the LPA for signatures. All original copies are then returned to KDOT for further processing. The executed original agreements are then distributed to the respective parties.

Supplemental agreements are changes to the original Agreement due to change of scope or some other amendment. They may be issued at the request of any party and are subject to approval by the same methods as the original Agreement.

3.2.3 Notice to Proceed and Payment\Reimbursement

A Notice to Proceed must be issued by BLP before any participating consulting work can be performed. When PE is participating, the LPA will make the payment to the Consultant then submit a request for reimbursement to BLP. BLP will review the request and reimburse the LPA. Monthly progress reports are required to verify that the payment corresponds with the work that has been completed. The Monthly Progress of Plans & Estimated Construction Costs form is available at:

http://www.ksdot.org/Assets/wwwksdotorg/bureaus/burlocalproj/Forms/Progress_Report.pdf

3.3 Non-Participating

If funds are not participating in the engineering and design related services contract, the LPA may procure the professional services in accordance with its own established policies and procedures which reflect applicable State and local laws.

BLP can provide the LPA with a recommended PE agreement template on request.

3.4 Conflict of Interest

Federal and State laws and regulations provide for the protection of the public's interest against fraud, waste, and abuse of government resources. All consulting engineering firms employed on projects administered by BLP are expected to exercise judgment and perform their duties in a way that supports the applicable policies and practices of the State of Kansas and the Local Public Authority. Any situation that would compromise the ability of the consulting firm or its employee(s) ability to act on behalf of KDOT or the LPA is considered a Conflict of Interest.

Conduct or situations that are conflicts of interest include, but are not limited to, the following:

- A consulting firm or its employee has, either directly or indirectly, a financial or personal interest in a contractor, subcontractor, or material supplier connected to the project.
- A consulting firm or its employee unduly influencing decisions on scope changes, design changes, construction revisions, contract change orders and other related issues to minimize or ignore design errors or to positively benefit the firm.

All consultant contracts for Preliminary Engineering Design Services for work to be paid partially or wholly with federal or state dollars will include the following language under the Obligations of the Consultant:

- The Consultant warrants they have no public or private interest, and shall not acquire directly or indirectly any such interest, which would conflict in any manner with the performance of the work under this Agreement. Specifically, the Consultant is prohibited from performing contractor construction staking or any other work that is the construction Contractor's responsibility on this Project.
- 2) The Consultant will not, without written permission from KDOT, engage the services of any person(s) in the employment of KDOT for any work required by the terms of this Agreement.

In addition, every contract for engineering services will include a Code of Conduct Certification, known as Special Attachment No. 2, signed by the Consultant, Deputy Secretary of Transportation and State Transportation Engineer, and the LPA. By signing this form, the three parties certify that there was no undue influence of any party regarding executing or carrying out the agreement.

The Consultant is responsible to identify and disclose any actual or potential Conflict of Interest on a project.

In addition to these requirements, the consulting firm and its employees shall comply with all other professional responsibilities, code of ethics, or law applicable to the services being provided.

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4.0 Environmental

4.1 Introduction

One of the most important phases of a Federal-aid project is the environmental process. Final design and obligation of federal funds for construction may not proceed until full compliance with the National Environmental Policy Act (NEPA) has been completed and the design summary document has been generated by KDOT. If federal funds are being used to acquire any right of way, acquisition may not commence until the NEPA process has been completed. If federal funds are not being used to acquire any right of way, it is encouraged and may be prudent to begin the actual right of way acquisition after the NEPA process (Final Environmental Memo) has been completed.

4.2 <u>NEPA</u>

The NEPA process consists of an evaluation of potential environmental effects of any federal aid project that requires permits or authorization from a federal agency. For projects administered through the BLP, the NEPA process begins when KDOT programs the project and assigns it a NEPA environmental class. There are three different levels of analysis that KDOT and the LPA may undertake to comply with the law:

- 1. Preparation of a Categorical Exclusion (CATX);
- 2. Preparation of an Environmental Assessment (EA) and Finding of No Significant Impact (FONSI);
- Preparation and drafting of an Environmental Impact Statement (EIS) and a Record of Decision (ROD).

The Environmental Services Section of the Bureau of Right of Way will perform or arrange for the necessary review to fulfill the NEPA requirements for all transportation projects (except CCLIP (SP), or FFE). The Environmental Services Section of the Bureau of Right of Way completes the initial environmental review needed for city and county projects. The acquisition of any necessary environmental permits is the responsibility of the LPA.

Most local projects are included in the CATX category after analysis. The PM will review the project scope and details to confirm that the CATX NEPA class is appropriate. Typically, the project is assigned a category class IIA or IIB. An environmental class of IIB is assigned if it includes grading in the scope and an environmental class of IIA is assigned if the scope only includes surfacing or is TAP funded.

If the LPA has any question regarding the NEPA class during the pre-programming phase, the PM should be notified as soon as possible. The PM is trained to identify project site conditions that may trigger a higher level of investigation. Answering yes to any of the following questions should warrant more investigation regarding a NEPA class:

- Is the proposal highly complex?
- Is public or agency interest high?
- Is the project controversial?
- Are conditions stable or highly variable?
- Are there properties affected that are protected by Section <u>4(f)</u>* or <u>6(f)</u>**?

*Section 4(f) – FHWA regulations governing the use of land from publicly owned parks, recreation areas, wildlife and waterfowl refuges, and public or private historic sites. BLP project managers will coordinate all 4(f) de minimis considerations.

**Section 6(f) of the Land and Water Conservation Act requires that the conversion of lands or facilities acquired with Land and Water Conservation Act funds be coordinated with the Department of Interior. Usually replacement in kind is required.

Helpful information can be found on the <u>FHWA Environmental Review Toolkit website</u>.

Actions that significantly affect the environment that may trigger a higher level of investigation include, but are not limited to the following: a new controlled access highway, highway project of four or more lanes on a new location, or new construction or extension of fixed rail transit facilities.

4.3 Public Involvement

The LPA is responsible for public involvement in the selection/prioritization process, which is commensurate with the scope and complexity of the proposed project. At a minimum, public involvement should include a public notice indicating when a governing body would be deciding on reviewing needs, selecting projects and setting priorities for federal aid projects. In later stages of project development, more public involvement may be warranted. The public involvement in the project development process will be in accordance with KDOT's "Sharing the Future, Public Involvement in the Kansas Transportation System".

More complex projects, or those that have a high potential for environmental impact, may require early and extensive public involvement and extensive documentation in accordance with 23CFR771. Documentation in these cases may be in the form of either an EIS (Class I) or an EA (Class III). The public involvement process flow charts included in KDOT's "Sharing the Future" provides the process used to categorize projects along with the sequence of events that need to be completed for each classification. See KDOT's Design Manual, Volume I, Road Section, Section 5.9 and the KDOT manual "Sharing the Future" for additional information.

4.4 KDOT Environmental Review Process

KDOT Environmental Services Section (ESS) initiates the memo, "Status of Projects Environmental Concerns (PRELIMINARY)", (Preliminary Memo) as projects are programmed. Depending upon the type of project and the location, ESS may proceed with clearing some of the tasks as appropriate. Tasks that may be cleared at the Preliminary Memo stage by ESS could include: Task 1- Traffic Noise, Task 2 – Air Quality, Task 6 – Farmland Protection, and Task 7 – Hazardous Waste (if no new ROW is being acquired). The remaining task's investigations are initiated as stated on the Preliminary Memo and will be investigated by the governing agencies as ESS sends out project documents (including field check plans) to the various agencies that have oversight responsibilities for these remaining environmental areas.

The field check plans are required to be sent to various reviewing agencies within the state. This is a critical step in the NEPA process and could affect schedule. For projects that are behind schedule and do not have fully developed field check plans, it may benefit the LPA to provide plan and profile sheets to BLP that indicate ROW and construction limits prior to submitting a full set of field check plans. The submitted plan and profile sheets may be used to begin the environmental review process. Please contact the PM prior to submitting plan and profile sheets for this purpose as it may not be allowed in every instance depending on the project.

After each agency has reviewed the pertinent project documents supplied by ESS, correspondence is provided to ESS from the reviewing agency. These letters will note clearances and/or any requirements and/or permits that may need to be met by the LPA prior to proceeding with the project. ESS compiles these letters and generates the "Status of Projects Environmental Concerns: Final Memo" (Final Memo.) The Final Memo summarizes the action or non-action that may need to be taken based on the review of the project documents.

The Preliminary Memo remains an internal document to KDOT ESS and is not circulated. The agency review response letters are archived by KDOT ESS and are not distributed to BLP unless there are concerns that require action. If an agency review letter requires action on the part of the LPA, the letter will be forwarded to BLP and subsequently to the LPA and Project Designer for review. After the Final Memo is received by BLP, it is archived on the Local Projects server and electronic copies are sent to the LPA and Project Designer by the PM.

The LPA will review the Final Memo and agency review letters (if applicable) for any required actions or necessary permits. For example; Task 5 – Wildlife, may indicate that the LPA needs to coordinate with Federal Fish and Wildlife Service (USFWS) before beginning construction. In this case, the LPA or their representative shall contact the USFWS to discover the issue that may be involved with the project. The Kansas Department of Wildlife, Parks, and Tourism (KDWPT) may, in some cases, require an action permit or a "habitat assessment" (to be performed by the LPA or their representative and submitted to KDWPT). The important thing regarding the Memo and agency review letters is that these documents need to be reviewed carefully and action taken when requested. It is imperative to keep the PM up to date regarding

any permits or other documents generated for the reviewing State or Federal agencies. Copies of these documents also need to be sent to the PM.

Timely consideration of these items can be very important to the overall schedule of the project. BLP will not proceed to PS&E until all permits and/or other environmental requirements have been accomplished.

4.5 Design Summary Document

The Design Summary Document (DSD) will be generated by the PM as soon as possible after the followinglisted conditions have been met:

- 1. The Field Check has been completed.
- 2. The project is listed on the current STIP or TIP as applicable.
- 3. The Status of Projects Environmental Concerns: Final memo has been issued.
- 4. Any other requirements needed for 4(f) or 6(f) considerations are met (if applicable).

If the project funding includes any federal funds, the DSD will be generated and routed to FHWA for concurrence unless it is labeled as a Type II-A project. Once concurrence is obtained, this document will be archived on the BLP server and emailed to the LPA and Consultant. If the project includes only state funding, it is immediately archived on the BLP server and emailed to the LPA and Consultant. As stated in the DSD, upon receipt of this document, ROW acquisition and final design may begin for the project. If federal funds are being used to acquire any right of way, acquisition may not commence until the NEPA process has been completed. If federal funds are not being used to acquire any right of way, it is encouraged and may be prudent to begin the actual right of way acquisition after the NEPA process (Final Environmental Memo) has been completed.

4.6 <u>Permits / Status of Permits (1307)</u>

It is the LPA's responsibility to determine which permits are required for the project. The LPA will make application for all permits required for the project. All required permits will be obtained prior to the beginning of the PS&E process (approximately **four months** prior to letting). BLP may delay the letting or cancel the project if the Form 1307 has not been received **four months** prior to the scheduled project letting date. All required permits shall be submitted electronically to BLP in their entirety. BLP will log and track the receipt of all project permits.

Permits that may be needed for the project will be discussed at the field review or field check meeting. A preliminary list of possible permits that may be needed for the project will be included in the field check report. The final list of permits required for the project will be determined by the LPA and/or their representative and submitted to the BLP via the <u>"List of Permits and Status of Same" (Form 1307)</u>.

The Form 1307 shall be filled out and signed by either the LPA or the Consultant and submitted along with office check plans. The Form 1307 shall be updated and submitted with all subsequent plan submittals (up to and including PS&E plans) to BLP. Form 1307 should be sent in electronic format. Plans submitted for review will not be accepted unless the completed Form 1307 is included.

Projects may contain mitigation measures, in addition to the standard conditions of the applicable permits. If one or more of the applicable permits contains mitigation measures, usually listed as special conditions, the Mitigation box shall be checked on Form 1307. If the applicable permits do not contain mitigation measures/special conditions, the Mitigation box shall not be checked on Form 1307. It will be the LPA's responsibility to address any mitigation/special conditions and incorporate appropriate measures into the plans or specifications as necessary.

Upon request, KDOT will assist the LPA in the development of a project specific special provision to address any special conditions.

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5.0 Plan Development

5.1 Introduction

The plan development section of this manual is intended to assist the LPA and the designer through the preliminary engineering phase of project development. Information in this section should also be considered during the project planning and programming phase so that the project scope can be as accurate as possible from the beginning.

5.2 Design References

Project design shall be in accordance with accepted engineering practices and all applicable state, AASHTO and federal criteria. These criteria include, but are not limited to the following references:

- 1. "<u>A Policy on Geometric Design of Highways and Streets</u>", AASHTO, current edition (Green Book).
- 2. "<u>Guidelines for Geometric Design of Very Low-Volume Local Roads</u>", AASHTO, current edition.
- 3. "<u>Roadside Design Guide</u>", AASHTO, current edition.
- 4. "Road Design Manual, Volume I, Road Section, Parts A & B", KDOT, current edition
- 5. "Drainage Design Manual, Volume I, Road Section, Part C", KDOT, current edition
- 6. "<u>LRFD Bridge Design Specifications</u>", AASHTO, current edition.
- 7. "<u>LRFD Guide Specifications for Design of Pedestrian Bridges</u>", AASHTO, current edition.
- 8. "<u>LRFD Bridge Design Manual, Volume III, Bridge Section</u>", KDOT, current edition.
- 9. "Survey Manual, Volume II, Survey Section", KDOT, current edition.
- 10. "Policies for the Rehabilitation of Highways and Bridges for Other than Interstate and Freeways on the State Highway System of Kansas", KDOT, dated February 14, 1990, for bridge rails on remain-in-place bridges. Bridge rails for remain-in-place bridges may remain in place if the rail is one of the types listed for remain-in-place. Those bridges identified with a "N/Y' will be considered for upgrading or retrofitting on a case-by-case basis if the current AADT is greater than 750 vpd.
- 11. "<u>Guide for the Development of Bicycle Facilities</u>", AASHTO, current edition.
- 12. "<u>Guide for the Planning, Design and Operation of Pedestrian Facilities</u>", AASHTO, current edition.
- 13. "<u>Manual on Uniform Traffic Control Devices</u>", (MUTCD), current edition.
- 14. <u>Americans with Disabilities Act (ADA) guidelines and standards</u>, various publications including PROWAG and ADAAG, United States Access Board, current edition
- 15. "Highway Capacity Manual", (HCM), current edition.
- 16. "Traffic Engineering Guidelines", KDOT Bureau of Transportation Safety & Technology.
- 17. "<u>Standard Specifications for State Road and Bridge Construction</u>", (including "Special Provisions to the Standard Specifications"), KDOT current edition.
- 18. "KDOT Access Management Policy", latest version.
- 19. "<u>Pavement Marking Policy</u>", KDOT, latest version.
- 20. "KDOT Utility Accommodation Policy", latest version.
- 21. "<u>A Guide for Accommodating Utilities Within Highway Right-of-Way</u>", AASHTO, current edition.

- 22. "Guide on Evaluation and Abatement of Traffic Noise", AASHTO, current edition.
- 23. "KDOT Temporary Erosion Control Manual", latest version.
- 24. "Guide for Design of Pavement Structures", AASHTO, current edition.
- 25. "Guidance on Traffic Control Devices at Highway-Rail Grade Crossings", FHWA, November 2002.
- 26. All current applicable BLP memos.

If not otherwise covered in this Manual, the procedures used shall conform to Federal and Kansas law.

5.2.1 AASHTO, FHWA and TRB Design Criteria

The American Association of State Highway and Transportation Officials (AASHTO), Federal Highway Administration and Transportation Research Board publish nationally recognized design criteria that are required for use in developing federal aid projects.

5.2.1.1 <u>A Policy on Geometric Design of Highways and Streets (AASHTO Green Book)</u>

Geometric design for new or completely reconstructed county roads and city streets shall be based on the design criteria included in the AASHTO Green Book (Green Book) or Guidelines for Geometric Design of Very Low-Volume Local Roads, as appropriate, and as noted on the KDOT Project Authorization (KDOT Form 883).

5.2.1.1.1 Design Speed

The design speed is a selected value that is used to determine the design features of a roadway. For a particular facility, the design speed is based on the functional classification of the road, the topography, adjacent land uses, expected traffic volumes, and anticipated operating speed. The Green Book recommends every effort should be made to use a design speed as high as practicable to attain safety, mobility, and efficiency while under the constraints of environmental quality, economics, aesthetics, and social or political impacts. Once selected, all pertinent features of the roadway, e.g. sight distance, horizontal or vertical curvature, should be designed in accordance with the design speed.

For county projects, the design speed selected should be at least equal to the regulatory or posted speed unless justification exists for a lesser design speed. When the design speed used satisfies the applicable Design Guideline Table in this manual but is less than the regulatory speed, mitigation measure(s) should be considered. As an alternative, the use of an operating speed may be considered in a request for an exception.

5.2.1.1.2 Design Exception/Allowance

If, during the development of plans for a proposed project, the LPA determines that there are circumstances that may make it impracticable to meet the applicable design guidelines, the LPA shall make a written request to BLP for a "design exception" using a summary format like the form in Figure 5.1. All supporting documentation should be included with the submittal as attachments to the summary form. Supporting

documentation should be consistent with *Section 2.3.4* of the *KDOT Design Manual, Volume 1, Bureau of Road Design*.

A request for a design exception may be made at any time in the design process when sufficient information is available to adequately evaluate the alternative solutions. All design exceptions are subject to approval by the Bureau Chief of BLP. The request may involve one or more of the following controlling criteria:

- 1. Design speed
- 2. Lane width
- 3. Shoulder width
- 4. Bridge width
- 5. Horizontal alignment
- 6. Vertical alignment
- 7. Grades
- 8. Stopping sight distances
- 9. Pavement cross slope
- 10. Superelevation
- 11. Vertical clearances
- 12. Horizontal clearance
- 13. Structural capacity

Justification for the request shall be included along with cost estimates for reasonable alternates. For guidance on information to be included in a design exception, see *Section 2.3.4* of the *KDOT Design Manual, Volume 1, Bureau of Road Design*.

A design allowance may be requested for necessary deviations from criteria or policy not included in the thirteen controlling criteria requiring a design exception. Requests for design allowances should be submitted and documented in the same manner as a design exception request.

BLP will respond to the LPA approving or denying the design exception/allowance request. Requests made prior to field check will be addressed as a part of the field check discussions. When the request is made after, or because of, the field check, the approval may be made prior to office check plans review if sufficient details are available on the field check plans or if additional details are submitted with the request. Otherwise, the response will be made after office check plan review. Approved exceptions will be reflected in the Design Summary Document.

KANSAS DEPARTMENT OF TRANSPORTATION

DESIGN EXCEPTION REQUEST

GENERAL INFORMATION					
Project Number:	County/ City:			Route No or Name:	
Project Description:					
PROJECT INFORMATION					
Functional	Traffic Volume:			Traffic Volume Yr:	
Class: Current	Additional Cost			Funding:	
Estimate: Design Life:	to Meet Criteria:			Letting	
-				Date:	
DESIGN EXCEPTIONS (CHECK ALL THA	AT APPLY)	_			
Design Speed	Stopping Sight Dist				
Lane Width			Pavement Cross Slop		
Shoulder Width			Superelevation		
Bridge Width		븜	Vertical Clearance		
Horizontal Alignment		븜		rizontal Clearance	
Vertical Alignment Grade		븜	Structural Capacity Other:		
Description of Existing Conditions:					
Relationship of proposed to adjoining secti					
Crash History and Potential Safety Impacts	:				
Reasons for not attaining criteria: (such as Proposed Mitigation:	cost/benefit, cr	ash I	history, environmen	tal, etc.)	
-					
PREPARED BY:				_ DATE:	
PREPARED BY: DESIGNER SIGNATURE:				_ DATE:	
PREPARED BY: DESIGNER SIGNATURE: CONCURRENCE BY:				_ DATE:	
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PREPARED BY: DESIGNER SIGNATURE: CONCURRENCE BY: OWNER (CITY/COUNTY) SIGNATURE: CONCURRENCE BY: KDOT PROJECT MANAGER SIGNATURE:				_ DATE:	

Figure 5.1: Example Design Exception Request Summary Form

5.2.1.2 AASHTO Roadside Design Guide (Roadside Safety)

Aspects of location, design, roadside appurtenances, and traffic control, including the traffic control plan, shall be given due consideration. This enables the designer to fully evaluate roadside conflicts arising from vehicles leaving the roadway out of control. AASHTO presents a hierarchy of design options for the treatment of fixed objects on the roadside. In order of preference they are:

- Remove the fixed object
- Redesign the fixed object so it can be safely traversed
- Relocate the fixed object to a point where it is less likely to be struck
- Reduce the impact severity by making the object breakaway
- Shield the object with a barrier or impact attenuator
- Delineate the object if none of the above options is appropriate

The AASHTO "Roadside Design Guide", current edition and AASHTO "Guidelines for Geometric Design of Very Low-Volume Local Roads" (where appropriate) shall be used in determining the clear zone width for new or completely reconstructed rural roads. Deviations from the clear zone width shall be based on engineering judgment and accident experience. The Roadside Safety Analysis Program (RSAP) is one tool available to designers to evaluate design features on a benefit/cost basis.

The 4th edition of the "Roadside Design Guide" has expanded the discussion of roadside safety in urban or restricted environments. In an urban environment, there is a high density of development, numerous fixed objects (utility poles, fire hydrants, planters, etc.), and frequent intersections (entrances/sideroads) that result in roadways with lower design speeds. In these restricted environments, the application of the clear zone concept may not be practical.

In an urban environment, a clear zone should be provided, but where this is not practical, every effort will be made to clear the roadside of obstacles (e.g., non-breakaway above ground utilities) for a minimum of a sixfoot lateral offset from the face of the curb. If, in a very restricted environment, provision of the six-foot lateral offset is not practical, a lesser value will be considered with appropriate documentation.

The presence of a curb alone does not signify an urban environment. Curbs have very limited re-directional capability except at very low speeds. In areas where urban characteristics are not present, regardless of whether the typical section includes curbing, a clear zone as described in Chapter 3 of the "Roadside Design Guide" shall be used.

On projects where a lateral offset is used in lieu of a clear zone do not show the lateral offset as the clear zone distance on the title sheet.

Where feasible, the length of guard rail through fill sections shall be held to a minimum by the use of 3:1 or flatter slopes. Culverts with an opening height of eight feet or more within the clear zone shall normally have guard rail. The need for protection at lower height openings will be based on engineering judgment.

The guard rail design criteria for span bridges and bridge length boxes shall be consistent in determining protection for the area of concern. For projects utilizing the tables in this manual, the minimum length of protection needed for an open-span bridge rail shall be determined with consideration given to the bridge rail as being the hazard. Other considerations of prevailing conditions, e.g., non-traversable slopes, fixed object in clear-zone, etc., will be addressed as needing protection on a project-by-project basis. The minimum length of protection needed for a bridge length box should be determined with consideration given to the far wing or near wing (special case for multiple boxes) as being the area of concern. Other considerations should be addressed on a project-by-project basis using prevailing conditions.

5.2.1.3 AASHTO Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT≤ 400)

On roadways that are ineligible for Surface Transportation Program (STP) funding, AASHTO's Guidelines for Geometric Design of Very Low-Volume Local Roads (ADT \leq 400) may be used to establish criteria for projects that meet the very low-volume definition. The LPA, or the designer, should notify the BLP project manager of the intent to use these guidelines at the site review/field check meeting and to document their use.

5.2.1.4 AASHTO Guide for the Development of Bicycle Facilities

The Guide for the Development of Bicycle Facilities shall be used to develop projects that provide on-road bike lanes or other off-roadway facilities such as shared use paths or side paths (shared use paths adjacent to the roadway) that are used for multiple modes of non-vehicular transportation. The primary function of bike lanes and shared use paths is transportation as opposed to trails where the primary function is recreational. The primary function for all projects developed under federal Transportation Enhancement/Alternatives funding will be transportation. A facility used by bicycles must be designed for the expected speeds including considerations of horizontal and vertical alignment, path width, clear zone, intersection conflicts and other design considerations similar to what would be considered in the design of a vehicular roadway.

5.2.1.4.1 Design Speed

Unlike a roadway project where a single design speed is used, the design of a shared used path may require different design speeds for different areas of terrain types such as steep grades or user abilities/age such as school areas. The design speed should be selected based on the criteria in the "Guide for the Development of Bicycle Facilities" and should be shown in the traffic data on the title sheets. If the project includes roadway and shared use path construction, list separate vehicle and bicycle design speeds in the traffic data.

5.2.1.4.2 <u>Clearances</u>

Similar to a roadway clear zone, a shared use path should provide a 2' clear area beyond the path edge that is clear of fixed objects such as large rocks, utility poles, railings and bridge piers. Path bridges should also provide this clearance resulting in a typical minimum bridge width for a path of 14'-0". If necessary, due to site constrictions, clearances to smooth objects such as a railing may be reduced to 1'-0". When near downward slopes steeper than 3:1, or parallel to water bodies, a wider separation should be considered, and a physical barrier may be required if the separation between the slope and trail is less than 5'. A vertical

clearance of 10' is also required over a shared use path and adjacent clear areas which may require removal or trimming of trees and should be noted on the plans.

Separation between sidepaths and adjacent roadways should be reviewed. A sidepath immediately adjacent to the back of curb is not acceptable as it places a curb high drop-off immediately adjacent to the path. A minimum separation of 5' is desired. If concrete pavement is extended across the separation area to eliminate mowing, an edge line or change in texture should be considered so that the cyclist is aware that this is not additional path width. If parking is allowed on the street adjacent to a sidepath, the vehicle overhang and door swing should be considered in evaluation of clear areas and separation widths.

5.2.1.4.3 Design Exception/Allowance

Bicycle facilities shall be subject to the same Design Exception/Allowance categories and process as roadways. See *Section 5.2.1.1.2* above.

5.2.1.5 FHWA Manual on Uniform Traffic Control Devices for Streets and Highways (MUTCD)

The Manual on Uniform Traffic Control Devices for Streets and Highways shall be used to establish minimum criteria for permanent and temporary traffic control items incorporated into projects developed through BLP. This includes items such as warrant analyses for traffic signals as required to determine if the work can be included in the project.

5.2.1.6 FHWA Competitive Bidding Requirements

FHWA programs (as well as KDOT programs) are based on the concept of open and fair competitive bidding as the best method of providing economical projects to the public. This concept is the basis for the following criteria for plans production:

5.2.1.6.1 <u>Proprietary/Sole Source Items</u>

The use of proprietary or sole source items does not provide for open competitive bidding and, in general, is not acceptable. Project plans should avoid the use of specifying specific models or brands in the Contract Documents. Generic details showing the requirements of the items are preferred. If it is necessary to show specific manufacturer's designations to clearly show design intent, information from multiple manufacturers plus the phrase "or approved equal" shall be shown in the Contract Documents. Typically, three manufacturers should be shown but there may be cases where two listings are acceptable.

There may be cases where synchronization (for example, consistent use of a manufacturer/model of a traffic signal controller) or replication of a historical feature such as a type of light pole is in the best interest of the public and the project. In these cases, a <u>Proprietary Product Certification form</u> shall be submitted to BLP for review and concurrence in the use of a synchronization item. See <u>Section 5.5.8</u> below for more information related to submitting a PIF or Certification request.

5.2.1.6.2 Unit Prices

In general, situations that require a special bid item should be based on a unit price rather than a lump sum basis. This allows all Contractors to bid on the same known quantity.

5.2.1.7 TRB Highway Capacity Manual (HCM)

The Highway Capacity Manual shall be used for roadway segment and intersection operational analysis. Use of micro simulation software for operational analysis may be requested by the designer and will be approved for use by KDOT on a case by case basis.

5.2.2 United States Access Board ADA Guidelines

The U.S. Department of Transportation (DOT) adopted the 2004 ADA Accessibility guideline in a Final Rule dated October 30, 2006 (ADAAG). These guidelines provide consistent usability for buildings and on-site facilities but do not address the public rights-of-way pedestrian environment.

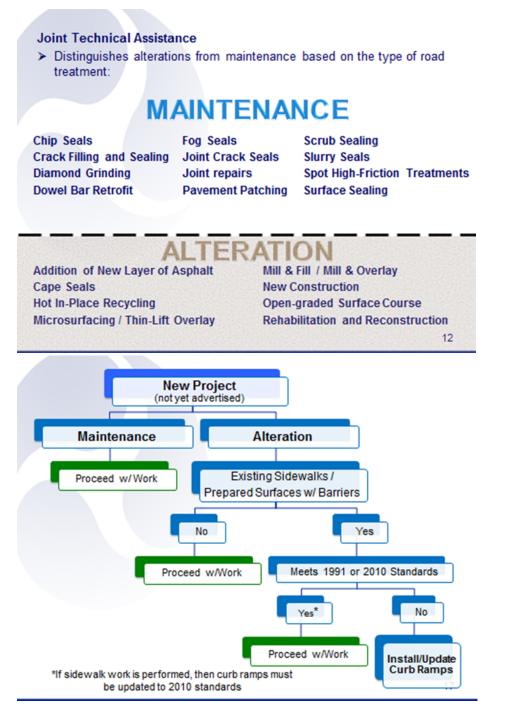
The Public Rights-of Way Accessibility Guidelines (PROWAG) were developed to specifically address designing new or altered public sidewalks, street crossings, and related pedestrian facilities. The PROWAG are not standards until the rule making process is complete but are the recommended best practices for areas not fully addressed by the present ADAAG standards. PROWAG is consistent with the ADA's requirement that all new facilities (and altered facilities to the maximum extent feasible) be designed and constructed to be accessible to and useable by people with disabilities. In this regard DOT (and KDOT) recognized PROWAG as an equivalent facilitation and is the recommended approach for providing consistent usability within public rights–of-way.

Consistency with ADA in the public rights-of-way can be achieved by agencies and designers in several ways.

- Follow the PROWAG.
- **Follow the ADAAG but supplement with PROWAG <u>only</u> where ADAAG is silent.
- **Follow the ADAAG but must have reasonable and consistent polies for accessibility for persons with disabilities where ADAAG is silent.

**Note: Specification section 824 requires the use of PROWAG criteria for ramp construction.

Additional guidance provided by the Department of Justice (DOJ) clearly defines alterations and action that must be taken due to alterations. That guidance is summarized in the following chart:



Curb Ramp Update Guidance Chart

It is important to note that these guidelines extend to temporary work zone conditions. The temporary traffic control plans must consider the ability of pedestrians, both able and disabled, to travel safely through or around the construction site. The temporary traffic control plans within the Design Plans shall include the designer's plan for handling multi-modal traffic during construction, including detour routes and road/sidewalk closings, if necessary, and installation of alternate or temporary pedestrian accessible paths to

pedestrian facilities in the public rights-of-way. The temporary traffic control plan, including the accessibility aspects, must be in conformance with the latest version of the MUTCD.

5.2.3 KDOT Design Manuals

5.2.3.1 <u>The most current editions of manuals, guidelines and policies published by KDOT should</u> <u>be used during project development and design. Policy & Informational Memos</u>

Project development should also be consistent with the most current and applicable KDOT policies and informational memos.

5.2.3.1.1 Pipe Materials

KDOT has developed a <u>Pipe Policy</u> to identify the materials that will be allowed in various situations and locations around the State.

5.2.3.2 <u>Surveys</u>

With the increasing availability of public domain GIS data, it is possible to generate a document that closely represents a set of design plans by overlaying several data sets over a common base. However, many of these sources were developed as administrative or planning tools. Although these overlays would suffice for concept plans or the delineation of drainage areas, BLP does not consider these data sets sufficiently precise for use as design plans, particularly where permanent or temporary land rights are being acquired or projects that require grading or surfacing.

Many of the KDOT standards bid items or tables used to summarize quantities are based on a traditional Station and Offset layout. For linear transportation projects, the use of coordinate only plans are discouraged.

Alignment control and ties to the public land system shall be provided on the project in accordance with the **"Survey Monument Guidelines for Project/Plan Development"** located in *Appendix A* below. Horizontal control points and benchmarks, including references for recovery, shall be provided on the project site. The establishment of the control points should be established with the same equipment limitations and accuracy requirements as would be required for the bid item "Contractor Construction Staking" to avoid issues in accuracy between the design and construction surveys. The bid item "Contractor Construction Staking" does not allow the use of GPS for the vertical component of control point, finish staking, or critical bridge member staking.

5.2.3.3 <u>Bid Items</u>

On State-let projects, standard KDOT bid items shall be used whenever possible including the proper use of bid item syntax as described in the specification. It is also helpful if the options allowed by the bid item are in a configuration that is currently listed in the <u>KDOT Bid Item List</u>. Where it is not possible to use an existing bid items, the designer will be required to prepare a Project Special Provision. See <u>Section 5.5.2.1.2</u> below.

5.2.3.4 Non-bridge Structures

All non-standard structures, including drainage structures, walls and other miscellaneous structures, should be designed and reviewed by a structural engineer.

The height of retaining walls in this section refers to the height from the top of footing or leveling pad to the top of the wall cap. Retaining walls less than three feet in height are not required to be designed or reviewed by a structural engineer. LRFD Design will be required for retaining walls greater than six feet in height. Retaining walls greater than six feet in height and on KDOT R/W are required to have a serial number. The LPA or the designer should request a serial number in accordance with *Section 17.0 Bridge Design* in this Manual.

Walls less than six feet in height may be bid as "Landscape Retaining Wall" and utilize the design criteria of the National Concrete Masonry Association Design Standards if they meet all geometric criteria in the Specification and are on the Bureau of Materials and Research list of approved systems (or alternatively, provide additional documentation as described in the specification). This landscape retaining wall specification is limited to MSEW and MBW systems. Walls less than 6 feet in height that are not MSEW or MBW systems shall be designed by LRFD criteria and may require preparation of a project special provision.

All cast-in-place concrete structures including conventional retaining walls, integral sidewalk retaining walls, new RCB structures, RCB modifications, wingwall extensions and other miscellaneous structures, will be bid by the individual quantities for concrete, reinforcing steel and excavation (and any other necessary pay items). Plans shall include the appropriate details and material schedules (Bill of Reinforcing Steel) to develop the appropriate quantities.

5.2.4 Design Criteria Tables

The tables of design criteria in this section were developed in compliance with all applicable AASHTO criteria and, where applicable, KDOT Design Manuals. When a conflict exists between the criteria tables and other KDOT references, the information contained herein shall control except as supplemented by BLP Memos.

DECION ELEMENT

"DESIGN ELEMENT				25	200		15	253		20			2	10			2.		
🕫 AADT	0 - 100 101 - 250				251 - 400				401 - 1500	(1501 - 2000	0 VE R 2000						
(3) TERRAIN ###		F	R	н	F	R	н	F	R	н	F	R	Н	F	R	Н	F	R	1
DESIGN SPEED (MIN.)	mph	40	30	25	40	30	25	40	30	25	50	40	30	50	40	30	60	50	
STOPPING SIGHT DISTANCE	ft.	305	200	155	305	200	155	305	200	155	425	305	200	425	305	200	570	425	
RATE OF CURVATURE (K)-CREST	8225	44	19	12	44	19	12	44	19	12	84	44	19	84	44	19	151	84	
RATE OF CURVATURE (K)-SAG	2011 - C	64	37	26	64	37	26	64	37	26	96	64	37	96	64	37	136	96	
⁽⁴⁾ ROADBED/RCB CULVERT WIDTH	ft.		10 - 17 00 -		-	a - a		a — 1	_	_	0.75						_		
(5) WIDTH OF TRAVE LED WAY	ft.	20	20	20	20	20	20	20	20	20	22	22	20	22	22	22	24	24	
(6) SHOULDER WIDTH	ft.	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	5.0(13)	5.0 ⁽¹³⁾	5.0 ⁽¹³⁾	6.0	6.0	6.0	8.0	8.0	Г
(14) PAVEMENT CROWN (HIGH TYPE SURF)	%	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	
(14) PAVEMENT CROWN (LOW TYPE SURF)	%	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2
⁽⁷⁾ FORE SLOPE		1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:4H	1V:4H	1.V:3H	1V:4H	1V:4H	1V:3H	1V:4H	1V:4H	
⁽⁸⁾ BACKSLOPE	122	1V:2H	1V:2H	1V:2H	1V:2H	1V:2H	1V:2H	1V:3H	1 V:3H	1V:2H	1V:3H	1V:3H	1V:2H	1V:3H	1V:3H	1V:2H	1V:3H	1V:3H	
⁽⁹⁾ MAXIMUM GRADE	%	7	9	10	7	9	10	7	9	10	6	8	9	6	8	9	5	7	
⁽¹⁰⁾ BRIDGE WIDTH - NEW & < 100 ft.	ft.	24	24	24	24	24	24	24	24	24	28	28	26	30	30	30	40	40	
⁽¹⁰⁾ BRIDGE WIDTH - NEW & ≥ 100 ft.	ft.	24	24	24	24	24	24	24	24	24	28	28	26	28	28	28	30	30	
(11) BRIDGE WIDTH - EXISTING	ft.	22	22	22	22	22	22	22	22	22	22	22	22	24	24	24	28	28	
(12) CLE AR ZONE	ft.	1990	2) (1 3)	80 <u>–</u> 81	3 	80 <u>–</u> 85	-	20 <u>-</u>	-	-	19 - -		19 41			8.000	2.000	(c 	-

VI.1A COUNTY DE SIGN GUIDELINES - NEW OR COMPLETELY RECONSTRUCTED MAJOR COLLECTOR ROADS (English Units)

F=Flat, R=Rolling, H=Hilly

NOTES:

⁽¹⁾Design elements common to all road ways:

Maximum superelevation = 8%

Normal ditch is 8 ft. x 2 ft. or as needed to accommodate the drainage.

Bridge loading -- New - HS-20, Existing - H-15

R/W width shall be sufficient to accommodate the grading section.

⁽²⁾Use design year AADT. Design year is typically 20 years from the time of design/construction.

(3) Prevailing slopes of natural ground are: Flat--3% or less, Rolling-between 3% and 9%, Hilly--9% or greater.

(4) Roadbed/culvert width shall be sufficient to accommodate proposed surface, shoulders, planned future base and, if necessary,

guardrail. An approximate clear zone should also be provided in accordance with the AASHTO "Roadside Design Guide".

⁽⁵⁾Roadway may be surfaced full roadway width which includes shoulders.

⁽⁶⁾Minimum width of shoulder is 4 ft. if roadside barrier is used.

⁽⁷⁾For paved roads, when the fill exceeds 6 ft., the slope may be 1V:3H regardless of terrain or traffic volumes.

⁽⁸⁾For paved roads, when the ditch cut exceeds 5 ft., the back slope may be steepened.

⁽⁹⁾Maximum grade may be increased by one percent (1%) for short distances (less than 500 ft.).

(10)a. Where the approach road way is surfaced for the full width, that surfaced width shall be carried across the structure.

b. RCB bridge width shall not be less than the roadway.

(11)a. Structures over 100 ft. in length will be analyzed individually considering clear width provided, crash history, traffic volumes, remaining structure life, design speed, and other factors.

b. Clear width between curbs or railings, whichever is less, should be equal to or greater than the approach traveled way width, wherever practical.

(12)Clear zone shall be determined in accordance with the latest version of the AASHTO "Roadside Design Guide".

⁽¹³⁾Shoulder width may be reduced for design speeds greater than 30 mph as long as a minimum roadway width of 30 ft. is maintained.

(14)High types surfaces are generally concrete or bituminous surfaced. Low type surfaces include earth, crushed stone, or other similar material.

General Comment:

Each design element should reflect the most practicable and economically justified value. Values below the design criteria

set out in the current edition of AASHTO "A Policy on Geometric Design of Highways and Streets" (Green Book), Chapter 6 will only be considered on a project-by-project basis, provided that a design exception is justified to KDOT. Under

favorable conditions, the use of more liberal design criteria is encouraged.

"A Policy on Geometric Design of Highways and Streets", AASHTO, 2011

References:

"Roadside Design Guide", AASHTO, 2011

Figure 5.2: Design Guidelines for New or Completely Reconstructed Major Collector Roads

8	
0100	
Н	
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305	
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64	
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1.5-2.0	
2.0-6.0	
1V:3H	
1V:2H	
8	
40	
30	
28	
19 90	

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VI.2A COUNTY DE SIGN GUIDELINES - NEW OR COMPLETELY RECONSTRUCTED
MINOR COLLECTOR ROADS (English Units)

AADT			0 - 100 101 - 250					251 - 400			2	401 - 1500			1501 - 2000			OVER 2000		
⁸⁾ TERRAIN ###		F	FRH		F R H			F R H		FRH		F R H			F	R	Н			
DESIGN SPEED (MIN.)	mph	40	30	25	40	30	25	40	30	25	50	40	30	50	40	30	60	50	40	
STOPPING SIGH T DISTANCE	ft	215	135	115	215-250 (13)	135-165 (13)	115-125 (13)	250	165	125	425	305	200	425	305	200	570	425	305	
RATE OF CURVATURE (K)-CREST		22	9	7	22-29(13)	9-13(13)	7-8(13)	29	13	8	84	44	19	84	44	19	151	84	44	
RATE OF CURVATURE (K)-SAG		64	37	28	64	37	28	64	37	26	96	64	37	96	64	37	138	96	64	
ROADBED/RCBCULVERTWIDTH	ft		100	-	3553	1000	-		(-	1753	1000				1000			
WIDTH OF TRAVELED WAY	ft	20	20	20	20	20	20	20	20	20	22	22	20	22	22	22	24	24	24	
SHOULDER WIDTH	ft	2	2	2	2	2	2	2	2	2	5(14)	5(14)	5(14	6	6	6	8	8	8	
PAVEMENT CROWN (HIGH TYPE SURF)	96	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	
PAVEMENTCROWN (LOW TYPE SURF)	96	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-8.0	2.0-6.0	2.0-6.0	2.0-6.0	
FORESLOPE		1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:3H	1V:4H	1V:4H	1V:3H	1V:4H	1V:4H	1V:3H	1V:4H	1V:4H	1V:3H	
BACKSLOPE	. 77.0	1V:2H	1V:2H	1V:2H	1V:2H	1V:2H	1V:2H	1V:3H	1V:3H	1V:2H	1V:3H	1V:3H	1V:2H	1V:3H	1V:3H	1V:2H	1V:3H	1V:3H	1V:2H	
[®] MAXIMUM GRADE	%	7	9	10	7	9	10	7	9	10	6	8	9	6	8	9	5	7	8	
¹⁰ BRIDGE WID TH - NEW & < 100 ft	ft	24	24	24	24	24	24	24	24	24	28	28	28	30	30	30	40	40	40	
^{IO} BRIDGE WID TH - NEW & ≥ 100 ft	ft	24	24	24	24	24	24	24	24	24	28	28	28	28	28	28	30	30	30	
¹⁰ BRIDGE WID TH - EXISTING	ft	22	22	22	22	22	22	22	22	22	22	22	22	24	24	24	28	28	28	
CLEAR ZONE	m	-	-	120	19 <u>9</u> 9	2.4	1924		2	1.12		1 12 <u>26</u> 11		1000 C	1	-	1	1	100	

NOTES:

⁽¹⁾Design elements common to all roadways:

Maximum superelevation = 8%

Normal ditch is 8 ft. x 2 ft. or as needed to accommodate the drainage.

Bridge loading -- New - HS-20, Existing - H-15 R/W width shall be sufficient to accommodate the grading section.

⁽²⁾Use design year AAD T. Design year is typically 20 years from the time of design/construction.

⁽³⁾Prevailing slopes of natural ground are: Flat--3% or less, Rolling--between 3% and 9%, Hilly--9% or greater.

(4)Roadbed/culvert width shall be sufficient to accommodate proposed surface, shoulders, planned future base and, if necessary,

guardrail. An approximate clear zone should also be provided in accordance with the AASHTO "Roadside Design Guide".

⁽⁵⁾Roadway may be surfaced full roadway width which includes shoulders.

⁽⁶⁾Minimum width of shoulder is 4 ft. if roadside barrier is used.

⁽⁷⁾For paved roads, when the fill exceeds 6 ft, the slope may be 1V:3H regardless of terrain or traffic volumes.

⁽⁸⁾For paved roads, when the ditch cut exceeds 5 ft, the back slope may be steepened.

⁽⁹⁾Maximum grade may be increased by one percent (1%) for short distances (less than 500 ft).

(19a. Where the approach roadway is surfaced for the full width, that surfaced width shall be carried across the structure.

b. RCB bridge width shall not be less than the roadway.

c. For AADT<400, bridges greater than 100 ft. in length should be evaluated individually to determine the appropriate bridge width.

(1%a. Structures over 100 ft. in length will be analyzed individually considering clear width provided, crash history, traffic volumes, remaining structure life, design speed, and other factors.

b. Clear width between curbs or railings, whichever is less, should be equal to or greater than the approach traveled way width, wherever practical.

c. For AADT <400, existing bridges can remain in place without widening unless there is evidence of a site-specific safety problem related to the width of the bridge.

⁽¹²Clear zone shall be determined in accordance with the latest version of the AASHTO "Roadside Design Guide" or AASHTO "Guidelines for Geometric Design for Very Low-Volume Local Roads".

⁽¹³⁾ Use low end of range for lower risk locations, e.g., away from intersections, narrow bridges, railroad-highway grade crossings,

sharp curves, and steep downgrades.

Use high end of range for higher risk locations, e.g., near intersections, narrow bridges, railroad-highway grade crossings. sharp curves, and steep downgrades.

⁽¹⁴Shoulder width may be reduced for design speeds greater than 30 mph as long as a minimum roadway width of 30 ft. is maintained.

(¹⁹High types surfaces are generally concrete or bituminous surfaced. Low type surfaces include earth, crushed stone, or other similar material.

General Comments:

Design values in this table for AADT less than 400 vpd are based on the AASHTO "Guidelines for Geometric Design of Very Low-Volume Local Roads". These values are considered minimums for application on roads driven primarily by familiar drivers. An important component of these guidelines is the incorporation of substantial design flexibility based on a knowledge of highway design principles, traffic engineering, safety engineering and specific knowledge of local conditions. This flexibility is intended to be exercised only by a qualified professional engineer. In all other cases, the design should be based on the criteria contained in the AASHTO "A Policy on Geometric Design of Highways and Streets".

Each design element should reflect the most practicable and economically justified value. Values below the design criteria set out in the current edition of AASHTO "A Policy on Geometric Design of Highways and Streets" (Green Book), Chapter 5 or AASHTO "Guidelines for Geometric Design of Very Low-Volume Local Roads" will only be considered on a project-by-project basis, provided that a design exception is justified to KDOT. Under favorable conditions, the use of more liberal design criteria is encouraged.

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Figure 5.3: Design guidelines for New or Completely Reconstructed Minor Collector Roads

LPA Project Development Manual

"A Policy on Geometric Design of Highways and Streets", AASH TO, 2011

"Guidelines for Geometric Design of Very Low Volume Local Roads (ADT <400)", AASHTO, 2001

"Roadside Design Guide", AASHTO, 2011

VI.3A COUNTY DE SIGN GUIDELINES - NEW OR COMPLETELY RECONSTRUCTED LOCAL ROADS (English Units)

AADT			0 - 50		51 - 250			251 - 400			401 - 1500			1501 - 2000			OVER 2000		
" TERRAIN ###		F	R	н	F	R	н	F	R	н	F	R	н	F	R	н	F	R	н
DESIGN SPEED (MIN.)	mph	30	20	20	30	30	20	40	30	20	50	40	30	50	40	30	50	40	30
STOPPING SIGHT DISTANCE	t	135	90	90	135-165 120	135-165(13)	90-95 (12)	250	165	95	425	305	200	425	305	200	425	305	200
RATE OF CURVATURE (K)-CREST	-	9	4	4	9-13 ⁽¹²⁾	9-13(12)	4-5(*2)	29	13	5	84	44	19	84	44	19	84	44	19
RATE OF CURVATURE (K)-SAG	-	37	17	17	37	37	17	64	37	17	96	64	37	96	64	37	96	64	37
ROADBED/RCB CULVERT WIDTH	t	1 649 5	- (#** -)	E 🔒 17		1	-				- (-))	-	6 8			1 - 1 Vi	-		- 14-
WIDTH OF TRAVELED WAY	t	20	20	20	20	20	20	20	20	20	22	20	20	22	22	22	24(5:5)	2400 5	24(15)
⁹ SHOULDER WIDTH	t	2	2	2	2	2	2	2	2	2	5(14)	5(14)	5(14)	6	6	6	8	8	8
¹⁶ PAVEMENT CROWN (HIGHT YPE SURF)	%	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0	1.5-2.0
PAVEMENT CROWN (LOW TYPE SURF)	%	2.0-6.0	2.0-6.0	2.0-8.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0	2.0-6.0
FORESLOPE		3:1	3:1	3:1	3:1	3:1	3:1	3:1	3:1	3:1	4:1	4:1	3:1	4:1	4:1	3:1	4:1	4:1	3:1
BACKSLOPE	220	2:1	21	21	2:1	2:1	2:1	3:1	3:1	2:1	3:1	3:1	21	3:1	3:1	2:1	3:1	3:1	2:1
MAXIMUM GRADE	%	7	11	11	7	10	11	7	10	11	6	10	10	6	10	10	6	10	10
¹⁰ BRIDGE WIDTH - NEW & < 100 ft	t	24	24	24	24	24	24	24	24	24	28	26	26	28	28	28	40	40	40
¹⁰ BRIDGE WIDTH - NEW & ≥ 100 ft.	t	24	24	24	24	24	24	24	24	24	28	26	28	28	28	28	30	30	30
¹⁰ BRIDGE WIDTH - EXISTING	t	20	20	20	20	20	20	22	22	22	22	22	22	24	24	24	28	28	28
⁽²⁾ CLEAR ZONE	t	1000		23	-	-			- 2	- 19 1	-	-9		22	÷-		(a)	14 A	-
NORMAL DITCH			2 ft.x 2 ft.	131 - OS		4ftx2ft	80		6 ft.x 2 ft.	i.	2	8 ft. x2 ft.	1	8 V	8 ft. x2 ft.	131 O.S.		8 ft. x2 ft.	80

⁽¹⁾Design elements common to all roadways:

Maximum superelevation = 8% Bridge loading -- New - HS-20, Existing - H-15

R/W width shall be sufficient to accommodate the grading section

⁽²⁾Use design year AADT. Design year is typically20 years from the time of design/construction.

⁽³⁾Prevailing slopes of natural ground are: Flat-3% or less, Rolling-between 3% and 9%, Hilly-9% or greater.

(*Roadbed/culvert width shall be sufficient to accommodate proposed surface, shoulders, planned future base and, if necessary,

guardrail. An approximate clear zone should also be provided in accordance with the AASHTO "Roadside Design Guide". ⁽³⁾Roadwaymaybe surfaced full roadwaywidth which includes shoulders.

^(c)Minimum width of shoulder is 4 ft. if roadside barrier is used.

⁽⁷⁾For paved roads, when the fill exceeds 6 ft, the slope maybe 3:1 regardless oftenain or traffic volumes.

⁽⁸⁾For paved roads, when the ditch cut exceeds 5 ft, the back slope maybe steepened.

⁽²¹M aximum grade may be increased by one percent (1%) for short distances (less than 500 ft.).

(10)a. Where the approach roadway is surfaced for the full width, that surfaced width shall be carried across the structure. b. RCB bridge width shall not be less than the roadway.

c. For AADT<400, bridges greater than 100 ft. in length should be evaluated individually to determine the appropriate bridge width.

⁽¹¹ 9a. Structures over 100 ft. in length will be analyzed individually considering clear width provided, crash history, traffic volumes, remaining structure life, design speed, and other factors, b. Clear width between ourbs or railings, whichever is less, should be equal to or greater than the approach traveled way width, where ver practical.

c. For AADT <400, existing bridges can remain in place without widening unless there is evidence of a site-specific salety problem related to the width of the bridge

⁽¹²⁾Clear zone shall be determined in accordance with the latest version of the AASHTO "Roadside Design Guide".

⁽¹³⁾ Use low end of range for lower risk locations, e.g., away from intersections, narrow bridges, rairoad-highway grade crossings,

sharp curves, and steep downgrades. Use high end of range for higher risk locations, e.g., near intersections, narrow bridges, railroad-highway grade crossings,

sharp curves, and steep downgrades. (*4)Shoulder width may be adjusted to achieve a minimum roadway width of 30 ft. for design speeds greater than 40 mph.

⁽¹⁵⁾Where the width of the traveled way is shown as 24 ft., the width mayremain at 22 ft. on reconstructed roadways where alignment and

safety records are satisfactory.

^{n e}High types surfaces are generally concrete or bituminous surfaced. Low type surfaces include earth, crushed stone, or other similar material.

General Comments:

Design values in this table for AADT less than 400 vpd are based on the AASHTO "Guidelines for Geometric Design of VeryLow-Volume Local Roads". These values are considered minimums for application on roads driven primarily by familiar drivers. An important component of these guidelines is the incorporation of substantial design flexibility based on a knowledge of highway design principles, trafficengineering, safety engineering and specific knowledge of local conditions. This flexibility is intended to be exercised only by a qualified professional engineer. In all other cases, the design should be based on the criteria contained in the AASHTO "A Policy on Geometric Design of Highways and Streets"

The subclass used for the oriteria is the agricultural access road. If the designer determines a different subclass is appropriate for a specific site, the criteria should be modified accordingly.

Each design element should reflect the most practicable and economically justified value. Values below the design criteria setout in the current edition of AASHTO "A Policy on Geometric Design of Highways and Streets" (Green Book), Chapter 5 or AASHTO "Guidelines for Geometric Design of Very Low-Volume Local Roads" will only be considered on a project-by-project basis, provided that a design exception is justified to KDOT. Under favorable conditions, the use of more liberal design criteria is encouraged

Figure 5.4: Design guidelines for New or Completely Reconstructed Local Roads

"Guidelines for Geometric Design of Very Low Volume Local Roads", AASHTO, 2001

"Roadside Design Guide", AASHTO, 2011

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VII.1A COUNTY AND NON URBAN (CITIES LESS THAN 5,000 POPULATION) DESIGN GUIDELINES - NEW OR COMPLETELY RECONSTRUCTED MAJOR COLLECTOR, MINOR COLLECTOR, OR LOCAL CURB AND GUTTER ROADS AND STREETS (English Units)

DESIGN ELEMENT		COLLECTOR	LOCAL
(1) AAD T/DESIGN TRAFFIC VOLUME		10 - 20 YR. VOLUME	10 - 20 YR. VOLUME
DESIGN SPEED (MIN.)	mph	8229	
110 PAVEMENT CROWN	96	1.5 TO 2.0	1.5 TO 2.0
SUPERELEVATION MAXIMUM	96	4	4
(3) NUMBER OF LANES		2	2
(4) LANE WIDTH	ft.	10 TO 12	10 TO 12
⁽⁵⁾ PARKING LANE	ft.	7 TO 10	7 TO 10
CURB CUT RAMPS		YES	YES
⁽⁶⁾ SHOULDERS/CURB & GUTTER			
⁷⁰ HORIZON TAL CLEARANCE CURB	ft.	8229	. 12
⁷⁷ HORIZON TAL CLEARANCE SHO.	ft.	SAME AS RURAL	SAME AS RURAL
⁸⁾ MAXIMUM GRADE	96	9	11
BRIDGE WIDTH NEW (CURB)	ft.	FACE OF CURBS	FACE OF CURBS
BRIDGE WIDTH NEW (SHOULDER)	ft.	SAME AS RURAL	SAME AS RURAL
⁹⁾ BRIDGE WIDTH EXISTING	ft.	EXISTING ROADWAY	EXISTING ROADWAY
BRIDGE LOADING NEW	0	HS-20	HS-20
BRIDGE LOADING EXISTING		SAME AS RURAL	SAME AS RURAL
CURBS, DRAINAGE, SIDEWALK, ETC.		SEE GREEN BOOK	SEE GREEN BOOK
RIGHT OF WAY	ft.		
CLEAR ZONE	ft.	1922	12

NOTES:

- ¹⁰ Use current AADT for low traffic volumes (less than 600 AADT/100 DHV)
- ⁽²⁾ Design speed should be equal to or greater than the posted or regulatory speed. Adjustments in the design speed may be considered to be consistent with the roadway cross-section, available right of way, terrain, adjacent development or other area controls.
- (3) Provide two through-traffic lanes. Additional lanes may be considered if traffic volumes warrant. Refer to Green Book for adding additional lanes.
- (4) Desirable traffic lane width in industrial areas or locations with high volumes of trucks is 12 ft. where feasible; use 11 ft. minimum width for these locations. Turning lane widths should range from 10 to 12 ft.
- ⁽⁵⁾ Parking lanes are to be provided where necessary, however federal aid may not pay for this item.
- ⁽⁶⁾ The width of the shoulder or curb & gutter should be consistent with the remainder of the cross section.
- ⁽⁷⁾ A minimum operational clearance of 1.5 ft. should be provided beyond the face of curb to any obstruction.
- An effort should be made to provide greater distance, up to the appropriate clear zone, where practicable. ⁽⁸⁾ Maximum grades may be increased by one percent (1%) for short distances.
- ⁽⁹⁾ a. Structures over 100 ft. long will be evaluated individually.
- b. The existing structure width should fit the proposed alignment, profile, and cross section. The clear width between curbs or handrails shall not be less than the approach traveled way.
- ⁽¹⁰ Right of way width shall be sufficient to accommodate the grading section.
- ⁽¹⁰Pavement cross slopes may be increased if necessary to limit inundation to about one-half of a traffic lane for an appropriate design storm.
- (12 Clear zone recommendations should be evaulated from the AASHTO "Roadside Design Guide"

General Comment:

Each design elements hould reflect the most practical and economically justified value. Values below the design criteria set out in the current edition of the AASHTO "A Policy on Geometric Design of Highways and Streets" (Green Book), Chapters 5 and 6, will only be considered on a project-by-project basis, provided that a design exception is justified to KDOT. Where conditions permit, the use of higher design criteria is encouraged.

References

"A Policy on Geometric Design of Highways and Streets", AASHTO, 2011

"Roadside Design Guide", AASHTO, 2011

Figure 5.5: Design Guidelines for New or Completely Reconstructed Major Collector, Minor Collector, and Local Curb and Gutter Roads and Streets

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5.2.5 <u>3R – KDOT Policy</u>

The goal of Rehabilitation, Restoration and Resurfacing (3R) projects is to preserve and extend the service life of existing highways, streets or bridges. Available funding is insufficient to improve existing roads to geometric requirements desirable for new construction. Many bridges may continue to function with only bridge painting or minor deck repair. Road constructed to previous design criteria are still capable of performing a useful transportation service. The guidelines contained in this section (including the criteria tables) are provided to assist in the design of 3R projects on county roads and streets.

The three R's are defined as follows:

<u>REHABILITATION</u>: - - The traffic service improvement and safety needs may be of equal importance to the need for improving the riding quality. Projects may involve intersection reconstruction; pavement widening; pavement replacement; shoulder widening; flattening of foreslopes; drainage improvements; and reconstruction of substandard grades, curves or sight distance. Some additional right-of-way may be necessary.

<u>RESTORATION:</u> -- This category is primarily for major resurfacing or overlays, which add a considerable amount of structure to the existing pavement. Usually resurfacing or overlays of a nominal four inches or more are included. In addition, some pavement widening, short sections of pavement reconstruction, shoulder widening, flattening of slopes in high fills and intersection reconstruction or an isolated bridge improving isolated grades, curves, or sight distance by construction or traffic control measure. In some cases, minor ROW acquisitions or easements may be required. Normal bridge painting only projects will be considered maintenance type work and minimum effort to consider other upgrade features will be necessary.

<u>RESURFACING</u>: -- Pavement resurfacing or overlays of less than four inches fall within this category. Other types of work such as pavement patching or short areas of reconstruction, joint replacement or repair, and shouldering may be included. Usually no additional right-of-way is required.

Safety enhancement is a consideration in most 3R projects. Criteria for consideration and/or to be addressed in project development are as follows:

- 1. All bridge ends which presently do not have advance traffic barriers (guardrail) should be analyzed according to the current version of the AASHTO "Roadside Design Guide".
- 2. Signing and marking should be in conformance with the current MUTCD.
- 3. The accident history should be analyzed with respect to number, rate, location, type and severity of crashes to identify safety considerations that should be addressed.
- 4. Bridges narrower than traveled way width (as defined by AASHTO) must have prior approval from KDOT to remain in place. If a bridge narrower than the traveled way is approved, a guardrail transition should be constructed, and object markers installed to delineate the end of the bridge rail. Also, the narrow bridge signs should be installed in accordance with the current MUTCD.

- 5. Bridge rails and guardrails on existing bridges should be reviewed for structural adequacy and conformance with current crash tested designs. If the bridge rails and/or guardrails are found to be structurally inadequate or functionally obsolete such that they cannot adequately contain and redirect vehicles without snagging, penetrating or vaulting, they should be considered for upgrading. Projects that include only bridge painting may be considered maintenance and do not require upgrading of bridge rails or guardrails.
- 6. When the scope of the project is limited to a 3R type road or highway improvement, the conditions and criteria noted in the following paragraph will apply for determining design speed. It is not considered appropriate to use regulatory speed limit signs at isolated locations where the design speed is approximately the operating speed as determined with consideration of the environmental conditions and terrain. The use of warning signs and advisory speed plates at horizontal curves (latest version of the MUTCD to be used as guide) should provide the traveling public adequate information to negotiate a roadway constructed to a 3R design of less than the regulatory speed limit; therefore, a design exception is not necessary. A design exception will only be required when the design speed for a vertical curve is more than 20 mph less than the regulatory speed. A design exception will not be required at locations where warning and advisory speed plate signs have been installed for a horizontal curve(s). These recommendations are supported by Transportation Research Board, National Research Council, Special Report 214 "Designing Safer Roads".
- 7. Obstructions within the clear zone for 3R projects should be reviewed for removal or relocation of the obstacle, installation of a traffic barrier, or do-nothing as determined by a cost-effective evaluation.

DESIGN ELEMENT				12	112		352.0		192		
AADT CURRENT YEAR		Under 400		400	- 749	750 -	1499	1500 -	2000	Over 2000	
"TERRAIN ###		F	R&H	F	R&H	F	R&H	F	R&H	F	R&H
2)DESIGN SPEED (MIN.)	mph	342		(112) (112)	() (22)	922	322	022		1922) (mai
3)STOPPING SIGHT DISTANCE	ft.	. 22		, s <u>2</u> 2	100	100	1923		, see .	822	1022
⁴⁾ MINIMUM HORIZ. CURVE RADIUS	ft.				80 (2 11) 8.	3 377	8 2 00 8		8 2 70 93		
⁵⁾ MAXIMUM GRADE	%				1.000	3.00	3755		377	1.775	1075
⁵⁾ PAVEMENT WIDTH	ft.	20	20	20	20	22	22	22	22	22	22
SHOULDER WIDTH	ft.	2	2	2	2	2	2	2	2	4	4
⁷⁾ BRIDGE WIDTH EXISTING	ft.	20	20	20	20	24	24	24	24	26	26
⁸⁾ BRIDGE LOADING EXISTING	8 <u>2</u> 8	. 2		. 22	10 Mar 10		120 No.	122	. 22	1	100
9)FORESLOPES	2002	2:1	2:1	2:1	2:1	3:1	3:1	3:1	3:1	3:1	3:1
10)CLEAR ZONE	ft.	10	10	10	10	10	10	10	10	10	10

VI.4A COUNTY DESIGN GUIDELINES - RESURFACING, RESTORATION AND REHABILITATION (3R) OF MAJOR COLLECTOR ROADS (English Units)

F = FLAT, R = ROLLING, H = HILLY

NOTES:

⁽¹⁾Prevailing (over 50%) slopes of natural ground are: Flat - 3% or less, Rolling & Hilly - over 3%.

⁽²⁾Design speed shall be equal to the posted or regulatory speed limit.

⁽³⁾Crest vertical curves should be evaluated for reconstruction when: (a.) the design speed of the hill crest (based on minimum stopping sight distance provided) is more than 20 mph below the posted or regulatory speed limit; (b.) the AADT is greater than 1500 vpd; and (c.) the hill crest hides an intersection, sharp horizontal curve, narrow bridge, or other feature that requires a specific driver response.

⁽⁴⁾Improvements to horizontal curves should be considered under the following conditions:

(a.) Superelevation should be increased when the design speed of the curve is below the posted or regulatory speed limit and the existing superelevation is below the maximum allowable specified in the Greenbook.

- (b.) Reconstruction of the curve should be considered when the design speed of the existing curve is more than 15 mph below the posted or regulatory speed limit and the AADT is greater than 750 vpd.
- ⁽⁵⁾The existing grade may remain unless there is a specific history of accidents that are related to the steep grade.

⁽⁶⁾Wider lane and shoulder widths should be considered at locations where trucks make up more than 10% of the total traffic volume

⁽⁷⁾Narrower bridge widths may be considered acceptable to remain in place if they are equal to the approach pavement width. See BLP Memo 03-05 for guidance on requirements for bridge redeck projects.

Whether or not bridge widening is warranted, installation of transition guardrails, rehabilitated or new bridge rails, and warning signs should be considered. (8) Legal load limit and not posted.

(9) Flatter slopes should be used if there is a history of run-off-road accidents or at locations where run-off-road accidents are likely

to occur (e.g., on the outside of sharp horizontal curves).

⁽¹⁰⁾Distance measured from edge of through traffic lane.

General Comment:

These guidelines are provided to assist in the 3R design of rural secondary roads. Each project must be considered individually to determine what improvements are feasible to extend the useful life of the existing roads. Bridge painting only projects should be considered as maintenance and upgrading of other features would not be required. Values below those shown in this table will be considered on a project-byproject basis provided that a design exception is justified to KDOT.

References

"A Policy on Geometric Design of Highways and Streets", AASHTO, 2011

Special Report 214, "Designing Safer Roads Practices for Resurfacing, Restoration and Rehabilitation", TRB, 1987

"Policies for the Rehabilitation of Highways and Bridges for Other than Interstate and Freeways on the State Highway System in Kansas", KDOT, 1990

"Roadside Design Guide", AASHTO, 2011

Figure 5.6: Design Guidelines for Rehabilitation, Restoration, and Resurfacing (3R) of Major Collector Roads

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5.3 <u>Preliminary Scoping/Site Review</u>

For projects with very short development schedules, or those that have unique aspects, it may be prudent to conduct a preliminary project scoping site review. Some preliminary engineering work should be performed to arrive at a concept with or without alternatives. The LPA should coordinate (or have their Consultant coordinate) an onsite meeting with BLP. The meeting will include a discussion of project scope and limits and should include design alternatives that have been considered. The intent of the meeting is to select the best alternative for which to develop plans.

5.4 Field Check

5.4.1 Introduction

The development of field check plans by the LPA shall be performed in accordance with accepted engineering practices and all applicable state, AASHTO, and federal criteria. A summary of the various guidelines that may apply to a project is given in this manual. KDOT's *Design Manual, Volume I, Bureau of Road Design, Section 2.3, FIELD CHECK PLANS*, is the guide for developing the plans to field check stage. In addition, geometric design guidelines, based on design traffic volume, design speed, functional classification and other pertinent criteria, are given in this manual.

5.4.2 <u>Required Documents</u>

Required documents to be submitted at Field Check Stage:

- Field Check Plans
- Project Cost Estimate
- Hydraulic Assessment Checklist (HAC) (on applicable projects)

The required documents shall be submitted to BLP in accordance with BLP E-Plan Requirements.

5.4.3 Plan Review

The LPA and/or its Consultant shall be responsible for the completeness and accuracy of the plans. Plans that are not considered to be adequately complete or accurate for field check may be returned to the LPA and/or its Consultant for additional development or revision. BLP's (and others as deemed necessary by the PM) review of field check plans will be for general compliance with the prevailing state, AASHTO and federal criteria for purposes of maintaining federal funding eligibility and ensuring sufficient information is available for a contractor to develop a fair and reasonable bid. This review is not a thorough design review and does

not relieve the LPA and/or its Consultant of the duty to provide a design that is well conceived and plans that are complete and accurate.

Field check plans will be reviewed by BLP and other appropriate KDOT Sections, comments will be made, and the review comments will be made available upon return to the LPA.

5.4.4 Railroad Coordination

During the site review/field check it should be determined if the proposed project will have a potential impact on rail facilities. If it appears that work will be near or on railroad right-of-way, the LPA should submit electronic plans detailing the work on or near railroad R/W to the PM. The PM will make the plans available to KDOT Coordinating Section for distribution to the affected railroad for their review. This submittal would occur after all site review/field check comments have been addressed and can be coordinated with the office check submittal. KDOT Coordinating Section will work with the railroad to determine the need for flagging, liability insurance, agreements, and a possible diagnostic review. The LPA will be responsible for providing railroad liability insurance quantities if they are required. Railroad liability insurance quantities should be developed in accordance with *Section 2.6.16* of the *KDOT Design Manual, Volume 1, Bureau of Road Design*.

5.4.5 Field Check Meeting/Report

The field check is an on-site and/or office review of the plans for the proposed improvement to assess project eligibility, appropriateness of scope of work, constructability, safety, and other issues relevant to the project. The PM will schedule a field check meeting after plans have been reviewed and determined to be at an appropriate level of detail.

After the site review/field check has been conducted, the PM will complete a field check report to document the meeting. The report will be distributed to the LPA, designer, and KDOT District and Area offices.

5.5 Office Check

Plans should be submitted for office check after the designer has addressed all plan issues, developed all details, and computed all quantities. All markups/comments which have been made by BLP on the Field Check submittal are made to improve the plans by suggesting or requiring changes. These do not override design decisions made by the designer or the owner. The designer's or owner's choice to disregard any BLP markups shall be discussed with the BLP PM and approved prior to Office Check plan submittal. At this stage, the designer should consider the plans to be complete and, in their opinion, ready for construction letting. Quality control checks should have been performed by the LPA and/or its Consultant to ensure the completeness and accuracy of the plans.

5.5.1 <u>Required Documents</u>

Required documents to be submitted at Office Check Stage:

- Office Check Plans
- Updated Cost Estimate
- KDOT Form 1307, List of Permits and Status of Same
- Traffic Warrants or Studies (if required)
- Design Exception/Variance Request (if required)
- Geology/Soils Reports (if available)
- Updated Hydraulic Assessment Checklist (HAC) (if applicable)
- Any other applicable project/exploratory reports

5.5.2 Plan Requirements

Field Check revisions made in accordance with the archived Field Check plans and Field Check Report will be reflected on the Office Check Plans. The plans at office check stage should be considered a complete checked set of plans. All details and quantities should be completed by the designer, and the plans should have undergone a thorough review by the engineer in charge to assure that the information shown is accurate and complete prior to submittal.

5.5.2.1 <u>General Requirements</u>

Guidance on items to be included in office check plans is in the *KDOT Design Manual, Volume 1, Bureau of Road Design, Section 2.6.*

If environmental mitigation is involved, the PM may forward electronic plans to the ESS so that copies can be sent to the appropriate regulatory and resource agencies. If the project involves construction near a railroad, office check submittal may be used by the KDOT Coordinating Section to determine railroad requirements for the project.

Plans are received and reviewed for general compliance to design guidelines and bid letting requirements by BLP. Detailed review of the plans to ensure that all applicable criteria are met and that the plans have been developed in accordance with KDOT procedures is the responsibility of the project design engineer, whether designed by LPA or Consultant. Plans marked for revision are returned to the LPA or the designer for necessary plan revisions and continuation of the project development process. If the plan review process reveals that the plans are not complete due to errors or omissions, the plans will be returned to the designer with a notification that a subsequent office check will be required. The designer will need to address the comments made on the plans and perform additional quality control checks to ensure that the plans have met the expectations of office check for the next submittal. It is important that these checks be performed prior to the initial office check to avoid the risk of impacting project schedules.

5.5.2.1.1 KDOT Bid Items

All bid items for pay included in the project plans shall be standard KDOT bid items whenever possible. For the list of valid KDOT bid items, please see the list at: <u>https://kdotapp.ksdot.org/BidItemList/BidItemList.aspx</u>

5.5.2.1.2 Non-Standard KDOT Bid Items

Three classes of specifications are used in the development of a KDOT project. Theses specification classes are:

- Standard Specifications The standard specifications are the current edition of KDOT's "Standard Specifications for State Road and Bridge Construction", current edition.
- Special Provisions These are approved supplementary provisions, additions or revisions to the Standard Specification. Essentially these are interim updates to the Standard Specifications and are prepared by Bureau of Construction and Materials. There may be multiple revisions of a Special Provision active at any given time. Typically, the newest version will be included in the project when the Contract Proposal documents are assembled by the BOCM. The proposal documents will identify the specific revision used for the project. The older versions of the Special Provision will be kept active until construction is complete on all projects that have used the older version.
- Project Special Provisions These are approved supplementary provisions, additions or revisions to the Standard Specifications that address conditions specific to an individual project.

If an item is required to be part of the project and cannot be covered by a standard KDOT bid item, the designer shall be responsible for preparing the project special provision. Proposed project special provisions should be submitted to the PM as soon as possible to enable adequate time for the BOCM to review, approve, and assign a special provision number. Project special provisions shall be submitted no later than the PS&E stage of project development.

In determining the need for a project special provision, the following approach should be considered:

- 1. Check existing specification. Verify that the standard specifications do not cover the information needed.
- 2. When possible, use notes on plans rather than creating a special provision.
- 3. If a new bid item is needed, there must be a project special provision to cover it.

If a project special provision is required, it shall conform to KDOT's format for special provisions. Information regarding the preparation of a project special provision can be found in the <u>"Guidelines for Development,</u> <u>Review and Approval of: Standard Specifications for State Road and Bridge Construction and Special</u> <u>Provisions to the Standard Specifications for State Road and Bridge Construction"</u>.

5.5.3 Design Exception/Allowance

The need for a Design Exception/Allowance should be determined no later than the office check stage of project development. Design Exceptions/Allowances should be documented and requested in accordance with the guidance given in this Manual.

5.5.4 Railroad Coordination

If work on the project will encroach on railroad rights of way, an agreement with the affected company may be required. In some cases where temporary or permanent easement is required, the railroad may require a legal description of the needed tract. This requirement should be anticipated when the LPA scopes the project for design since additional survey work and project development time may be required.

In some cases, the proposed work may cause the need for a railroad flagger to be present during portions of the construction.

Quantities for railroad protective liability insurance may also be required if work is done within certain limits of the track(s). For more information regarding railroad protective liability insurance reference *Section 2.6.16* of the *KDOT Design Manual, Volume 1, Bureau of Road Design*.

The need for an agreement, flagger and liability insurance will be determined with the assistance of the KDOT Coordinating Section during the project development process.

5.5.5 Design Summary

KDOT's ESS issues a "Status of Environmental Concerns – Final" memorandum after all environmental clearances have been obtained and all necessary documentation has been completed. This document will also indicate which permits may be required for the project. For additional information on the environmental requirements and documentation for a project see *Section 4.0 Environmental* of this Manual.

Once ESS has issued the final environmental memo, BLP will issue a Design Summary Document that confirms the final determination of the project's design criteria, environmental classification and indicates that all clearances and approvals have been obtained. The Design Summary Document will also indicate if any Design Exceptions have been approved for the project and confirm that the project is programmed on the STIP and/or MPO TIP.

Note, for LPA Administered projects, the LPA is responsible for developing the Design Summary.

5.5.6 Traffic Signal Warrants

An engineering study may be required to demonstrate warrants are satisfied for modification of existing traffic signals. New traffic signals must meet warrants to be included in the project. Warrants should be submitted as early as possible in the plan development process to the PM. Work proposed for traffic signals that do not satisfy warrants will not be eligible for inclusion in the project.

5.5.7 Operational Analysis

An operational analysis may be required when a proposed project modifies an existing condition on or adjacent to a state or federal highway. An operational analysis may also be required to validate preferred design alternatives and/or justify expenditure of federal or state funds on the local system. A copy of the operational analysis should be submitted as early as possible in the plan development process to the PM for review.

5.5.8 Public-Interest Findings and KDOT Certifications

Proprietary or sole source items should not be specified unless necessary on the project. The LPA shall be responsible for providing a PIF to BLP when it is necessary to specify proprietary products for reasons other than "project specific" or synchronization, use public equipment or materials, or award contracts on a basis other than competitive low bid. PIFs should be completed as early as possible to allow for BLP review and concurrence as outlined in this Manual.

FHWA guidance regarding PIFs can be found online at: <u>https://www.fhwa.dot.gov/federal-aidessentials/catmod.cfm?id=43</u>.

FHWA must approve all PIFs. A specific form is not required for the PIF and the request may take the form of a letter documenting the request. The request for a PIF review on Local Projects should be sent to the PM and will be reviewed by BLP. The LPA will be notified of the approval or denial of the PIF request.

The use of proprietary or sole source items for reasons of synchronization or architectural consistency may be allowed. The LPA may submit a <u>Proprietary Product Certification form</u> to KDOT for approval.

5.6 Final Check

The purpose of final check is to ensure that all office check comments have been addressed and the plans are ready for PS&E. All markups/comments which have been made by BLP on previous submittals are made to improve the plans by suggesting or requiring changes. These do not override design decisions made by the designer or the owner. The designer's or owner's choice to disregard any BLP markups shall be discussed with the BLP PM and approved prior to Final Check plan submittal. If design changes have occurred since the previous office check, the submittal is a subsequent office check.

5.6.1 <u>Required Documents</u>

Required documents to be submitted at Final Check Stage:

- Final Check Plans
- Updated Cost Estimate
- KDOT Form 1307 (List of Permits and Status of Same)
- Electronic copies of all permits obtained to date
- Drafts or final versions of required project special provisions
- Any other reports or project documentation not previously submitted

5.6.2 Plan Requirements

The LPA and/or its Consultant will address all comments made during the office check of the project. When the designer has addressed all comments from office check and considers the plans to be complete, the plans and other required documentation should be submitted to BLP for final check. Submittal of any project and exploratory reports that have not been previously submitted should also occur at this time. A draft of any project special provisions needed, including any environmental restrictions on the project should also be submitted to BLP at final check to allow for KDOT review and finalization prior to PS&E.

5.7 <u>PS&E</u>

For PS&E requirements, please refer to *Section 9.0 PS&E* in this Manual.

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Appendix A

SURVEY MONUMENT GUIDELINES FOR PROJECT/PLAN DEVELOPMENT

The following guidelines will aid in the project/plan development of projects processed through the KDOT Bureau of Local Projects. These guidelines represent the minimum requirement for an engineered project and are intended to supplement sound engineering and surveying practice and standards of care. The intent of these guidelines is to provide a project that can be constructed independently by the information contained on the project plans and that it meets all Local, State, and Federal statutes and regulations, which is a requirement for federal aid eligibility. These guidelines should be reviewed by the consultant in developing a "Scope of Services" proposal for LPA's and by the LPA to determine if a sufficient "Scope of Services" is being provided by consultants during the Preliminary Engineering Consultant selection process.

The alignment defining the existing right-of-way corridor shall be researched, retraced, and monumented to accommodate the construction effort and/or right of way acquisition on projects meeting any one of the following conditions:

- 1. The project requires acquisition of new rights of way or easements.
- 2. The project includes grading or excavation.
- 3. A new permanent pavement (e.g., concrete or asphalt) is to be constructed.
- 4. The project includes installation or construction of drainage structures (e.g., bridges, concrete box culverts, roadway culverts, entrance pipes).

The manner of replicating and monumenting an existing corridor is detailed in the current *KDOT Bureau of Design, Survey Manual, Section 2.2*, and is incorporated into this guideline by reference. Research shall include original road records, subdivision plats, adjacent deeds, any available road plans, survey records, and land survey reference reports. The section corners and quarter section corners necessary to establish and write legal descriptions for the new rights-of-way shall be recovered or established by a professional land surveyor. This will afford the opportunity to reference the existing right of way to the proposed construction. Appropriate land survey monument ties, to be determined by the adjacent deeds and ownership, shall be made and noted on the plans. This will necessitate the recovery, or perpetuation of PLSS (Public Land Survey System) corners, and/or subdivision plat monuments along or adjacent to the project for the development of proposed right of way descriptions. All land survey activities associated with the project development shall conform to the <u>Kansas Minimum Standards for Boundary Surveys</u> as adopted by the Kansas State Board of Technical Professions.

Projects that are a planned improvement on an entirely new alignment shall be established/monumented in a manner as described in the current *KDOT Bureau of Design, Survey Manual, Section 2.2* as noted above. The project plan should include sufficient ties to the appropriate land survey monuments that control the new right of way descriptions as noted above. This will be determined based upon the adjacent ownership deeds that the acquisition will be based upon.

Survey Monument Guidelines (continued)

Projects that are limited to work within the roadbed and do not require section lines for project control, such as recycling, paving and overlays may still endanger PLSS corners. In order for the construction surveyor to follow the laws on endangered corners, the design consultant or the LPA is required to locate all endangered corners and file the Land Survey Reference Reports prior to submittal of the field check plans. If a PLSS corner cannot be located the Land Survey Reference Report should be filed describing the efforts made to locate the corner. On projects with plan sheets the location and ties to endangered corners shall be included in the plans.

Projects that include grading and/or drainage structures shall reflect the vertical datum for the project, the datum bench mark description and elevation, and shall reflect bench marks established for the project in accordance with the current *KDOT Bureau of Design, Survey Manual, Section 2.3* which is incorporated into this guideline by reference.

Project plans that do not meet the minimum criteria described above will be returned to the submitting firm/agency for corrective action.

6.0 <u>Right of Way</u>

6.1 Introduction

This section is focused on the beginning of the right of way (ROW) process. ROW activities begin before any actual construction or fieldwork is started. Like any other project, success with ROW usually depends on planning. This section will discuss the following topics:

- roles
- planning and lead time
- federal funding guidelines
- records and parcel files
- contracting work and agreements
- qualifications of ROW personnel, and
- minimum value purchases

6.1.1 **Roles and Responsibilities**

Local, State and Federal Agencies all have roles in an LPA project.

6.1.1.1 Federal Highway Administration

Acquiring ROW for a public project often requires several partners. A project may require a cooperative effort involving the LPA, KDOT and Federal Highway Administration (FHWA). KDOT and FHWA currently have the agreement that KDOT oversees the acquisition of ROW on projects receiving federal funds for compliance with federal acquisition and relocation guidelines.

FHWA has reviewed and approved KDOT's ROW processes for compliance with federal laws and regulations. Therefore, it is to the benefit of the LPA to model their ROW processes on KDOT policies. The LPA must follow both state and federal laws and regulations.

6.1.1.2 <u>KDOT</u>

For a project to receive state and federal funding, there are a multitude of laws and regulations to which the LPA must adhere. One of KDOTs primary functions is to advise the LPA concerning ROW acquisition so that the federal funding is not jeopardized. KDOT ROW manuals are available upon request to assist the LPA in the acquisition of ROW. Additionally, the PM is a member of BLP staff specializing in ROW acquisition and is available as a resource.

An LPA may develop a written policy and procedure manuals for ROW acquisition. Any written policy and procedure manuals for ROW acquisition developed by the LPA will be subject to KDOT and FHWA review **prior** to use on a federal-aid project.

6.1.1.3 FHWA and KDOT

KDOT has a responsibility to monitor ROW acquisitions done by a LPA when federal or state funds are participating in a project on the behalf of KDOT and FHWA. One of KDOT's objectives when monitoring a project is to assist the LPA to secure the benefit of the federal or state funding they have requested.

The areas to be monitored include management, design, appraisal, acquisition, relocation assistance, title and closing, condemnation and property management. If, during monitoring the ROW acquisition, KDOT becomes aware of potential problems, the potential problems will be pointed out to the LPA and alternatives to remedy the problems will be discussed. The LPA can utilize KDOT's suggestions or develop their own resolutions. Ultimately the LPA is responsible for maintaining eligibility for any state and federal funding participating in the project.

Yearly FHWA will identify seven local projects in the state of Kansas that are federally funded in any phase and for which ROW was acquired for a review of the LPA's ROW files. One project is selected out of each of the six KDOT Districts and an additional project is selected out of either the Wichita (WAMPO) or Kansas City (MARC) MPO area. The LPA will be notified in writing if their project if selected for review and a time for review will be scheduled. The LPA will make available their staff that was involved in the acquisition for the project. Failure to provide proper documentation to support the fact state and federal guidelines were followed in the acquisition of ROW could jeopardize funding for that project.

In Kansas, the Local Public Agencies (LPA) self-certify compliance with the "Uniform Relocation Assistance and Real Property Acquisition for Federal and Federally-Assisted Programs", also known as the "Uniform Act". This is accomplished by submitting a completed "Right of Way Clearance Form" (1306 form) for each project. Each year several) ROW reviews are conducted throughout the State. These reviews have frequently identified issues with "Uniform Act" compliance. In most cases, these issues have been minor in nature. However, our goal is to achieve zero issues with ROW acquisition and total compliance with the "Uniform Act". To facilitate this goal, KDOT in association with FHWA and the Kansas Local Technical Assistance Program (LTAP) has developed the KDOT "ROW Certification Program" (ROWCP) that all LPAs must complete prior to ROW self-certification.

This program, a partnership with KDOT, FHWA, and Kansas LTAP consists of watching 6 short videos and taking a written test consisting of 24 questions based on the videos. At least one person from each Local Public Agency (LPA) will be required to be certified (full-time LPA employee). Also, any ROW-acquisition contractors the LPA may hire to perform any part of the ROW acquisition must be certified. Certification under this program must be renewed every 3-years.

The LPA will be required to take the test after watching the videos. Answers will be sent to KDOT for tabulation, and the LPA will be notified by KDOT via email regarding the results (pass/fail). The test may be re-taken if needed. Videos may be referenced while answering the questions.

6.1.1.4 LPA's Responsibility

The LPA is responsible for acquiring the necessary ROW for the construction and maintenance of the proposed facility in accordance with all applicable federal and state laws and regulations. The LPA must consider not only ROW acquired in fee simple, but also permanent easements (slopes, drainage, etc.), temporary easements (construction, borrow, etc.), licenses and any other agreements required for the entering on or use of land or property rights for construction and maintenance activities.

The LPA may or may not choose to involve federal funds in the acquisition of ROW. If the LPA is utilizing federal funds in *any* portion of the project (not just ROW), all requirements of the <u>Code of Federal</u> <u>Regulations (CFR) Title 49 Part 24</u>, "Uniform Relocation Assistance and Real Property Acquisition for Federal and Federally Assisted Programs", also known as **"The Uniform Act"**, apply to the acquisition of ROW. KDOT's PM is available to assist the LPA with compliance with The Uniform Act, however compliance with The Uniform Act is the responsibility of the LPA.

After the required ROW for a project has been acquired and cleared for construction, the LPA **must** certify compliance with all applicable laws and regulations by submitting a <u>"Right of Way Clearance Form" (Form 1306</u>). Failure to comply with this submission will jeopardize the LPA's funding requests and may delay the letting of a project. If no ROW was acquired for the project, the LPA must still submit a completed KDOT Form 1306. Any required field can be marked with a "0".

6.1.2 Planning / Lead Time

One of the most significant challenges in acquiring ROW is the LPA is dependent on factors over which they may have little or no control. Delays may be encountered from property owners, title companies and the court system, just to mention a few. Because of the potential for time delays KDOT recommends scheduling plenty of lead time for the acquisition of ROW.

The following is a sample schedule for ROW activities for an average project such as a widening job containing ten parcels or so. Some time frames for functions may overlap, and complex projects will require more time. Not provided are estimates for Relocation Assistance, as these types of parcels can only be estimated on a case by case basis. Relocation Assistance will require significant time, and the PM is available to help the LPA estimate the time needed.

Layout & Legal - Preparation of the ROW plans, plats, legal descriptions and title reports.	4 Months
Appraisal and Appraisal Review - Time to prepare and review appraisals.	4 Months
Negotiations – Notice of Proposed Public Improvement and Authorization to Acquire (per KSA 26-518) Negotiator making contact, securing signatures on contract, and closing transaction.	7 Months
Condemnation - Preparation of Condemnation notice, requesting selection of commissioners, making service, and making payments. Filing necessary notices required publications and property owner mailings.	6 Months
	TOTAL - 21 Months

6.1.3 Federal Funding Eligibility

23 CFR 710.203, 710.307 and 710.309 requires that costs for appraisal, negotiation and condemnation *will not* be eligible for federal funding *without prior authorization from the FHWA* to proceed with the activity. This authorization request is made through BLP. Costs incurred prior to the appraisal phase such as ROW estimates, title work, preliminary survey and plat and description preparation may be eligible for federal participation and reimbursement as a preliminary engineering activity or as an incidental ROW expense only if the costs are incurred after authorization.

Costs eligible for reimbursement include: real property acquisition, incidental costs of the acquisition, pro rata taxes and/or special assessments, permanent and temporary easements, damages to remainder of real property, court awards and cost of tenant-owned improvements, uneconomic remnants, and construction in exchange for donation. All documents relating to acquisition of the ROW must be available for inspection. Plans, contracts, deeds, appraisals, options, vouchers, correspondence and all other documents and papers must carry the federal-aid project number for identification.

6.1.4 <u>Records/Parcel Files</u>

The LPA must maintain a separate parcel file for each acquisition of real property and all the people displaced (see discussion of Parcel--What Is It? in Miscellaneous Topics). LPA records must be sufficient to demonstrate compliance with all applicable laws and requirements and be available for inspection by KDOT, FHWA and possibly other divisions of state and federal government. The LPA must retain records for at least **three years** after the final payment is made for any ROW phase of the project.

Provided below is a list of the minimum records needed to be retained:

- All Correspondence
- Title Documents
- Design Summary Information and Plat
- Appraisals and Review Appraisals
- Agency Approval to Make Offers
- Written Offer Letter
- Negotiator's Notes
- Administrative Settlement (if used)
- Copy Signed Contracts
- Conveyance and Closing Documents
- Proof of Payment to Landowners/Tenants
- Relocation Forms
- Relocation Agent's Notes
- Condemnation Documents (if used)
- Right of Way Record Checklist (see Form Q in Appendix B Forms).
- Proof of Payment to Landowner(s) and Tenant(s)

6.1.5 Contracting Work/Intergovernmental Agreements

If the LPA does not have sufficient internal staff necessary to complete the necessary ROW functions, they may contract with a private contractor or with other governmental agencies. When the LPA contracts with outside resources, they should allow additional coordination time in the overall schedule for ROW acquisition.

6.1.6 <u>Contracting Work</u>

KDOT Bureau of ROW maintains a list of consulting firms that may be used by the LPA for ROW activities. These services should be contracted in compliance with the applicable requirements for contracting with private contractors, fee appraisers or other specialists. KDOT provides the list of consultants for informational purposes only, and does not warrant the services supplied by consultants.

6.1.7 Intergovernmental Agreements

KDOT may be available to assist the LPA with the ROW acquisition for their project as workload permits. KDOT's assistance may be provided in appraisal, appraisal review, acquisition, relocation, condemnation, property management, and other miscellaneous tasks such as preparing plans, estimates, and title documents. In addition, other neighboring local agencies may also be an option for additional ROW resources, for example, neighboring city or county staff.

To hire KDOT staff, the LPA must submit a written request to the PM specifying the function with which they are requesting help. They must also ask for information pertinent to the scope of the requested function as well as the projected completion schedule.

If KDOT staff is available to complete the assignment within the requested time frame, KDOT will prepare a cost estimate for the LPA. KDOT will then prepare an Intergovernmental Agreement outlining the functions KDOT will perform for the LPA along with the estimated costs. The LPA will be responsible for all actual costs incurred. Sample copies of Intergovernmental Agreements may be obtained from the PM.

6.1.8 Qualification of Right of Way Personnel

The LPA should have qualified personnel supplying the necessary ROW services. Provided below are minimum qualifications for persons performing ROW program functions. There are ROW functions for which no qualifications have been provided, including property management, land plat and description preparation, and condemnation and project management. If you find you require any of these services, or others, consult with the PM for assistance in determining the necessary qualifications. Additionally, KDOT maintains a list of persons who provide services for appraising, review appraising, negotiating and relocation assistance. KDOT does not make recommendations from this list.

Fee Appraisers must

- Have successfully completed technical appraisal training and have experience in appraising the type of property to be appraised. When in doubt, a sample appraisal can be requested.
- Have previous experience preparing appraisals for eminent domain ROW acquisition.
- Be a certified or licensed appraiser.

Fee Review Appraisers must

- Possess the ability to logically analyze the appraiser's approach to value and recognize deficiencies in the appraisal report.
- Be certified or licensed appraiser.

NOTE: Should you decide to utilize the services of a fee review appraiser, your agency retains the responsibility to approve the amount believed to be just compensation.

Negotiators must

- Have documented experience in performing acquisitions which complies with the requirements of the Uniform Act or be a full-time employee of the LPA or the DOT.
- Be familiar with the requirements of the Uniform Act.
- Demonstrate the ability to understand appraisals and appraisal reviews.
- Be proficient in researching courthouse records and understand the legal title process.
- Demonstrate the ability to interpret right-of-way plans.
- Possess effective communication skills.

Relocation Assistance Agents must have

- Documented experience in performing relocation assistance which complies with the requirements of the Uniform Act.
- Sufficient ROW knowledge.
- Knowledge of related project disciplines (work within a team).

6.1.9 Minimum Value Purchase

When the administration cost of securing the ROW for a parcel approaches or exceeds the value of the acquisition itself, the procedure for acquiring ROW may become disproportionate and cumbersome. Minimum value purchase procedures have been developed to reduce cost and time necessary to acquire less complex parcel acquisitions.

Minimal value purchases are uncomplicated acquisitions estimated not to exceed \$10,000 in value, excluding agriculture fence and crops. Minimal value purchases allow for waiving the LPA's requirement that an appraisal be used to determine just compensation. An administrative estimate, called an "Estimate of Just Compensation", is used to establish the amount to be offered as just compensation. The format for an estimate of just compensation is described in *Section 6.2* of this Manual. If a negotiated agreement is not reached with the property owner and condemnation is necessary, it would benefit the LPA to have an appraisal made of the property. FHWA has approved the use of minimal value purchases on federally funded projects. By following the compensation estimate process as defined in this Manual, the LPA should be in compliance with state and federal guidelines.

6.1.10 Procedural Guidelines

The goal of the Uniform Act is to encourage and expedite the acquisition of real property by agreement with the owner, avoid litigation and relieve congestion in the courts, assure fair and equal treatment for all owners, and promote the confidence of the public in land acquisition for public use. To achieve that goal, certain procedures must be followed when acquiring ROW.

This section provides a brief overview of items required to be performed so funding is not jeopardized. The activities are listed in the approximate order in which they should be performed. See *Checklist C - Local Public Agency Project Checklist* in *Appendix A*.

- Contact BLP to inform and perform preliminary startup procedures and determine the scope of the project including what, if any, additional ROW will be needed.
- Prepare the parcel files, secure title information, plot existing and proposed ROW lines on construction plans, calculate the acquisition areas, and review access control needs. Estimate the acquisition amount for each parcel to determine the complexity of the valuation issue and the appropriate valuation procedure. One item to be wary of is the presence of hazardous waste and contaminated properties, see *Section 6.9.5*.

- Complete the public notification and involvement requirements.
- Request authorization for reimbursement of incidental expenses including appraisals from KDOT and FHWA if participation in payment of these ROW expenses is sought.
- Comply with notification requirements per 49 CFR Part 24.5.
- Determine the amount to be offered as just compensation by an appropriate method (appraisal or through the appraisal waiver process).
- Submit information necessary to request authorization to acquire from KDOT and FHWA if state or federal funding participation in ROW is sought.
- Acquire the ROW and close each transaction.
- If relocation is involved, assist all displaced persons (Please note that per K.S.A. 58-3502, all acquiring agencies are required to provide relocation assistance to eligible recipients on all projects.)
- If necessary, complete Condemnation proceedings.
- Certify the project ROW is clear by submitting the 1306 form.

A guide detailing the ROW process may be found in *Appendix A*, *Checklist G*. This checklist is called the *Right of Way Record Check Sheet* and is a helpful tool in managing the ROW process. At any time in this process, if ROW related issues need to be discussed, contact the PM.

The following information will describe in more detail suggestions on "how" the ROW functions should be performed to comply with federal funding.

• Title Search

There must be an examination of the county records, and a title report requested for each parcel to determine the owner of the property, including mortgage holders and other interested parties. This title report is used to determine the status of title so that merchantable title for the land required can be obtained. The report is also used as an information source for describing land and identifying all persons or entities with an interest in and/or the authority to contract for deed and/or release real estate interests. When examining the county records, the report must show a five (5) year sales history of property. If there was a transfer of title within the last five (5) years, this requires the researcher to go beyond this five (5) year window to the previous deed transferring ownership. These records are maintained as a part of the parcel file. (Reference 49 CFR Part 24.103 (a) (2))

• Legal Descriptions/Plats

Legal descriptions and plats must be prepared in accordance with Kansas Minimum Standards for Boundary Surveys and Mortgagee Title Inspections Standards of Practice (latest revision).

• Authorization for Right of Way Activities

For participating ROW acquisition activities, the offers cannot be made before a written notice of FHWA Environmental Concurrence is issued. The DSD is used to provide permission to proceed with property acquisition.

For non-participating ROW acquisition activities, it is recommended that the ROW process is not initiated prior to the DSD being issued.

6.2 <u>The Valuation Process</u>

This section is intended to serve as a brief description of the Valuation Process. The KDOT Bureau of Right of Way, Appraisal Section maintains a detailed "Appraisal Manual" providing additional information. A copy may be requested from the PM.

When the LPA has received authorization to acquire ROW for the project, the Valuation Process is the next step. Fair and just compensation must be considered for all interests regarding acquired property rights.

The Valuation Process may be described in four basic areas:

- Whether to use an appraisal or implement the appraisal waiver process.
- Appraisal Process/Appraisal Waiver Process
- Review Process
- Agency Establishment of Approved Offer

6.2.1 <u>To Appraise or Not to Appraise</u>

The first decision the LPA will need to make during the Valuation Process is whether to obtain an appraisal or utilize the appraisal waiver process. This section of the Manual will discuss both types of valuations. The PM is available to answer any questions regarding either process. Decisions regarding which process to utilize should be reached in compliance with all state and federal criteria on this subject to avoid conflicts that may adversely affect federal eligibility for the project.

6.3 <u>The Appraisal Process</u>

This sub-section provides detailed information concerning the appropriate use of both the Appraisal Process and the Appraisal Waiver Process. The following information provides the basis to determine which valuation process is appropriate to use on specific parcels.

Before the initiation of negotiations, the property must generally be appraised. There are two exceptions: (1) if the owners decide to donate the property and waive their right to an appraisal (see *Section 6.9.3*) or (2) if the simplicity of the acquisition indicates that an appraisal is not necessary (see *Section 6.2.1*).

The format and level of documentation in an appraisal depends on the complexity of the appraisal problem. There are two appraisal report formats that satisfy Kansas DOT and FHWA standards; short form or standard form. The appraiser is expected to use the most appropriate format. The format to be used should generally be specified in the appraisal assignment.

• Short Form Report

A brief narrative discussion must be included covering the overall property, the acquisition, and the acquisition's effect on the remainder. The extent of documentation should be commensurate with the complexity of the appraisal, and values involved. In the event of condemnation, the appraiser may be requested to provide before and after values for the property on the short form report. The estimate of just compensation arrived at in a value finding appraisal report reflects the appraiser's opinion of the difference between the before and after values.

The standard three approaches (Market Sales, Income and Cost) should be considered, but often only the Sales Comparison Approach will be developed. The land valuation requires a minimum of two sales, documented, identified, and confirmed in the same manner as comparable sales for a detailed appraisal report.

All items of the acquisition are to be listed on the short form report, even those for which the compensation value is zero. When access control is acquired, it should be listed as "Access Rights" under "Damage to the remaining property".

The Uniform Residential Appraisal Report (URAR), with certain additions, may be used for appraising residential properties when a "Total Acquisition" is involved, or when a "before value" must be developed for a partial acquisition. Photographs of both interior and exterior, as well as a floor plan sketch with approximate dimensions are recommended for any building to be acquired, along with comparable sales sheets with photographs and a sales location map.

All or part of this form may be used to value a residential portion, as defined, of a multi-use property and incorporated in larger report covering the entire property.

• Standard Form Report – Detailed Appraisal Report

Detailed Appraisal Reports are required on either total or partial acquisitions of properties when other less detailed formats are not applicable. In the case of partial acquisitions, this report is referred to as a "Before and After" appraisal.

This type of report should include all applicable approaches to value. Reasons for omitting any traditional approach to value should be clearly stated in the report. The Appraiser may be instructed to limit appraisal analysis to a specific valuation approach or approaches when be when inclusion of additional approaches to value would not significantly add to reliability and support of final value estimates, or when recommended by legal counsel.

It is not acceptable to produce an after-acquisition value by subtracting the estimated value of acquisition and damages from the before acquisition value conclusion.

• Opportunity to accompany the appraiser

Regardless of the form used, the appraiser **must** offer the property owner, or their designated representative, a reasonable opportunity to be present during the inspection of the property. All appraisals are prepared in conformity with the "Uniform Standards of Professional Appraisal Practice" (USPAP) as promulgated by the Appraisal Foundation, except as they may conflict with the state and federal requirements for eminent domain, in which case the jurisdictional exception provision of USPAP is applicable.

Provided are some items to consideration when determining fair market value, including appraiser selection and qualifications, some general requirements, number of appraisals, and appraisal updates.

• Appraiser Selection and Qualifications

Prior to the selection of an appraiser, each parcel to be acquired must be reviewed to determine the complexity of the acquisition, the desired appraisal form and a problem statement must be written. These determinations and the statement must be provided by someone with expertise and knowledge in these matters. The appraiser selected must be a Kansas licensed or certified appraiser and have demonstrated: real estate appraisal experience, successful completion of real estate appraisal training, experience in eminent domain appraisals, and experience appraising the type of property being acquired.

In those instances when the services of a KDOT appraiser or a fee appraiser are being used, the LPA must enter into a written agreement for the contracted services. If a fee appraiser is hired, the agreement must contain a schedule of the fees, itemized by parcel. The fee appraiser's proposal for services should be based on the LPA's determination of what type of value report is required. It is advisable that the agreement also contain a completion date and payment schedule for possible court testimony.

• Conflict of Interest

No appraiser or review appraiser may have any interest, direct or indirect, in the real property being appraised for the LPA that would in any way conflict with the preparation or review of the appraisal. Compensation for making an appraisal cannot be based on the amount of the valuation (say, as a percentage of or on a charted basis) and an appraiser cannot act as a negotiator for a property he/she has appraised.

LPAs must establish an appeal procedure for all contractors who feel they have not been treated fairly during the selection process and/or in the administration of a contract. Please see *Appendix C, Appeal Procedure* for an example.

• Required Number of Appraisals

In general, only one appraisal is required for each non-complex tract acquired. If there is an extremely controversial or complex appraisal, a change in highest and best use occurs, or a high dollar purchase is contemplated, the LPA may determine that a second appraisal or review is necessary. If federal funds are used in the appraisal costs, the LPA will need to obtain prior approval from KDOT before obtaining the second appraisal if reimbursement will be requested.

• Appraisal Update

An appraisal should be updated or a new appraisal obtained if: (1) additional value information is presented by the owner, (2) a material change in the property or proposed acquisition indicates the need to modify the appraisal, or (3) if a significant delay (depending on market conditions) has occurred since the date of the original appraisal.

6.3.1 The Appraisal Waiver Process

The Appraisal Waiver process estimates fair and just compensation, and has also been referred to as an Estimate of Just Compensation. The estimate of just compensation is not a formal appraisal and is used with minimal value purchases. It requires only a one-page form which you can find as *Form G* in *Appendix B*. This form can be used for *minor, uncomplicated acquisitions* where compensation to the property owner does not exceed \$10,000. The \$10,000 figure is exclusive of payments for the cost of tillage, fertilizer, growing crops, agricultural ROW fence.

Please note that simply because the compensation value is less than \$10,000 does not mean that an estimate of just compensation may be used rather than an appraisal. The potential complexity of the acquisition must also be considered. In *Appendix A* is a checklist entitled *Checklist for Determining Complex Parcel for Appraisal Purposes*. This checklist can help in determining if an acquisition is complex enough to require an appraisal or, if not, that a compensation estimate may be used.

Consultants may prepare and sign an estimate of just compensation **ONLY IF THEY ARE A LICENSED OR CERTIFIED APPAISER**. Otherwise, an authorized agent for the LPA must sign it. It is not necessary that the estimator offer the property owner or the owner's representative an opportunity to be present during the property inspection.

The estimator can also serve as the acquisition agent. An administrative approval must be obtained before the offer is made. The administrative approval must be provided by an official of the LPA other than the person making the compensation estimate. If the agency maintains a ROW staff, the agency might assign a qualified licensed or certified appraiser to approve these estimates. Although not required to do so, the local agency may wish to maintain a listing of approved compensation estimates along with who approved the estimates.

This report form can also be used for simple partial acquisitions when damages to the remainder are nonexistent or are relatively minor, are easily measured or explained, or are measurable by cost-to-cure. An example of a "simple partial" acquisition would be a strip acquisition from a large property, which does not approach close enough to any improvements to cause possible proximity damages. Any partial acquisition which necessitates reconfiguration of improvements or which damages the improvements cannot use this form. Any partial acquisition which changes the highest and best use of remaining property also could not be appraised using this form.

There is \$10,000.00 limit to the total value of land and damages when using this form. This type of form does not express before and after values, but only indicates compensation due to the property owner and/or lessee. Value of the land and/or improvements acquired must be supported by applicable data. Any large cost-to-cure items must also be appropriately supported.

6.3.2 The Review Process

If the LPA does not have a qualified review appraiser on staff, the LPA will need to secure the services of a contracted reviewer. The reviewer's responsibility is to ensure consistency of property values on a project, an adequate investigation of the local market to support the appraisal and that the appraisal conforms to applicable eminent domain appraisal standards. The LPA will need to designate a local official to subsequently approve the amount to be offered as just compensation following review of the appraisal.

All appraisals require review by a qualified review appraiser. The person performing the appraisal review function must be thoroughly familiar with the Uniform Act and eminent domain requirements under the law. An appraisal review may not be performed by the appraiser that made the appraisal of fair market value. The review appraiser will examine the appraisal to determine it:

- has been completed in accordance with the approved appraisal specifications,
- follows accepted appraisal principles and techniques in valuation of real property in accordance with the USPAP and state law for eminent domain acquisitions,
- contains information necessary to explain, and substantiate the conclusion and estimate of fair market value,

- includes consideration of compensable items, damages, if any, and does not include compensation for items not compensable under state law,
- contains an identification of the buildings, structures and improvements on the land as well as the fixtures which were considered as part of the real property (see discussion of Tenant-Owned Improvements and Leasehold Interests),
- contains an estimate of fair market value for the acquisition and, where appropriate in the case of a partial acquisition, an allocation of the estimate between the real property and damages to the remainder property.

Upon completion of the review and any corrections or modifications necessary by the appraiser to make the appraisal conform to these guidelines, the review appraiser will attach to the appraisal and place in the parcel file a signed and dated statement setting forth the following:

- whether the appraisal is accepted and approved, accepted and not approved,
- the approved amount recommended to be offered as just compensation,
- the understanding that the determination is to be used in connection with a federal-aid highway project,
- the extent of the visual inspection of the parcel to be acquired and of the applicable comparable sales,
- that no direct or indirect, present or contemplated future personal interest in the property exists nor that any benefit from the acquisition of the property appraised will occur,
- that this determination has been reached independently based on appraisals and other factual data of record without collaboration or direction,
- the determination shall be documented to show its basis

6.3.3 Agency Establishment of Approved Offer

The LPA must determine the amount of the approved offer of just compensation. This responsibility cannot be transferred to a consultant or contractor. Each file should document a determination of the approved offer signed by an official of the LPA.

49 CFR Part 24.102(d) requires the LPA to establish an opinion of fair and just compensation, offer the full amount believed to represent fair and just compensation, and that the approved amount cannot be lower than the lowest appraisal received.

6.3.4 <u>Summary of Valuation Process</u>

The following steps have been provided as a quick guide to help the LPA through the valuation process.

- Determine the appropriate type of valuation needed. Rely on local staff expertise
- \circ Consult with KDOTs PM
- Assign the work to the appropriate people.
 - Appraisers with expertise for the type of appraisal problem.

- o Acquisition agents with sufficient expertise to develop compensation estimates.
- An appraiser can complete the Estimate of Just Compensation and serve as the acquisition agent.
- Complete the necessary review
 - Qualified review appraiser for appraisal review.
 - Qualified staff for administrative review of compensation estimates.
- Establish the agency's approved estimate of fair and just compensation.
 - Must be an official of the LPA.
 - Amount must be, at a minimum, the lowest appraisal received.
 - o Should be written and documented in parcel file.

6.4 <u>The Acquisition Process</u>

The Acquisition Process has presented challenges for many acquiring agencies and property owners alike. KDOT's Bureau of Right of Way Acquisition Section developed a brochure <u>"Real Property Acquisition for</u> <u>Kansas Highways, Roads, Streets, and Bridges"</u> to provide more information regarding the process.

This section has been divided into five specific areas. The areas that will be reviewed are:

- Overview and getting started
- Offers/Notices
- Contracts/agreements
- Notes/documentation
- Administrative settlements

Sample forms are provided in *Appendix B* below.

6.4.1 Overview and Getting Started

• Title information

Prior to the initiation of the Acquisition Process, adequate title information must be obtained. The LPA will need to recognize early in the process all the interests to be acquired including but not limited to owners, lien holders, tenants, easement holders, and taxing authorities.

• Good Faith Negotiations

Code of Federal Regulations (CFR) Title 49 Part 24.102 (f) requires the LPA to negotiate in good faith and present each owner with a statement of their rights. A copy of a statement of rights pamphlet <u>"Real</u> <u>Property Acquisition for Kansas Highways, Roads, Streets and Bridges</u>" is available on the KDOT website. It is to the benefit of the LPA to make the pamphlet a part of a packet that is provided to every property owner.

Negotiating in good faith contemplated providing all parties the opportunity to discuss their views, opinions, and concerns. All parties should also have the opportunity to have their thoughts seriously considered, and their questions answered. All parties must be given reasonable opportunity to consider the information and seek counsel if they wish. At the end of good faith negotiations all parties will need to determine what they believe to be an appropriate outcome.

Any knowledgeable and qualified member of LPA staff may be the negotiator. It is helpful if the negotiator is a Notary Public for notarizing documents signed by property owners, but not a requirement.

The negotiator should personally contact the property owner and tenant of each property on the project. The initial contact with the owner(s) as part of the Acquisition Process will depend on which form of the Valuation Process you have selected. Remember the Valuation Process is completed either by an appraisal or the Appraisal Waiver Process.

If the Appraisal Waiver Process is used for valuation purposes, the initial contact will be when the acquisition agent completes the compensation estimate form after meeting with the owner. Compensation estimates should not be completed by one representative and delivered by another. Remember, the goal of the Appraisal Waiver Process is to reduce the time and expense for the owner and acquiring agency.

If reasonable efforts have been made, and an agreement cannot be reached, the LPA may need to initiate eminent domain (condemnation) proceedings to acquire the required property rights. The negotiator cannot do or say anything that may be construed as being coercive in nature to obtain the owner's agreement. However, a brief explanation of the eminent domain procedure should be provided to the owner along with the brochure titled <u>"Real Property Acquisition for Kansas Highways, Roads, Streets and Bridges"</u>. This will assist the owner in understanding the process.

• Miscellaneous Acquisition Expenses

State and federal regulations require all LPA's acquiring ROW to reimburse expenses incidental to and necessary for the transfer of property. A partial list of these expenses include: recording fees, transfer taxes, documentary stamps, and evidence of title. These and other eligible expenses may be reimbursed to the owner, or preferably, paid directly to the person(s) entitled to payment. The LPA is not required to pay costs required solely to perfect title or assure that the title to the real property is entirely without defect, surveys and legal descriptions of the real property, penalty costs and other charges for prepayment of any preexisting recorded mortgage encumbering the real property entered into in good faith.

• Items to present to the owner

The person negotiating on behalf of the LPA should be prepared to explain the project plans and the impact of the project on the owner's property. As required by Federal law the following must also be presented and explained:

• The written offer of just compensation for not less than the full amount of the reviewed and approved appraisal, and approved by the LPA with the amounts for land, improvements, fence and damages separately listed.

- If the acquisition includes relocation of personal property or individual a statement should be provided informing the owner or tenant that they will not be required to move their personal property earlier than 90 days from the date of the notice, nor earlier than 30 days from the date compensation has been made available, if the 30 days from date of payment does not supersede the 90-day notice.
- An informational brochure, <u>"Real Property Acquisition for Kansas Highways, Roads, Streets and</u> <u>Bridges</u>" or an approved alternative.
- The documents to be signed by the owner once the LPA's offer is accepted.

6.4.2 Offers/Notices

Owners and tenants are entitled to written offers reflecting the LPA's approved estimate of fair and just compensation. In the event of relocation, owners and tenants are also entitled to notices informing them of when they will be required to move from the property.

Should the LPA subsequently approve a revised appraisal review or estimate of just compensation for a different amount, a revised written offer must be provided to the owner and/or tenant. *Form D* in *Appendix B* may be used for this requirement.

The date of the offer must reflect the date the written offer of just compensation was presented and all required notices provided. If the offer is accepted, the LPA must pay the agreed purchase price **BEFORE** taking possession of the property.

6.4.3 <u>Contracts/Agreements</u>

The goal of the Acquisition Process is to reach a mutually acceptable agreement which will be memorialized in a legally binding contract. As a tool for reference, samples of contracts and contract clauses are provided. These samples are for reference only and the LPA should consult with local legal counsel as to specific contract and conveyance needs.

6.4.4 Notes/Documentation

It is important that after each phone call with a property owner, the local negotiator completes a written negotiator's contact report, sometimes called negotiator's notes. These notes should summarize each contact and interview with the property owner and should remain in the parcel file. These reports will eventually become available for inspection by the public. See *Form F* in *Appendix B* for a sample. Each report should contain as a minimum:

- project number,
- parcel number,
- date of contact,
- type of contact (phone or in person),

- name, address and telephone number of person contacted,
- special instructions, if necessary, for locating that person,
- names of all other persons present,
- names, addresses and phone numbers of attorney or other representatives,
- main points discussed, questions and commitments made by agent,
- principal objections to offer or taking,
- whether offer was accepted or rejected,
- requests made by owners,
- any other highlight discussions of the contact including special instructions for closing, relocation or property management,
- negotiator's signature and date

6.4.5 Administrative Settlements

The Uniform Act requires that "The head of the agency shall make every reasonable effort to acquire expeditiously real property by negotiation." Negotiation implies an honest effort by the acquiring agency to resolve differences with property owners. Offers to purchase should not reflect a "take it or leave it position."

The LPA may determine that it is in the public's best interest to make a negotiated settlement with the owner for more than the approved appraisal amount. All negotiated settlement increases must be documented. A written report called an "Administrative Settlement" should explain and provide justification why this settlement is in the public's best interest.

Administrative settlements should describe the acquisition, state the offer of just compensation and the proposed negotiated settlement amount, and introduce information which supports the settlement and the requested approval from the proper authority. The settlement may also include information on recent court awards for similar type property, the property owner's appraisal data, an estimate of trial cost or an opinion of legal counsel. The settlement must be approved by an officer of the LPA acquiring the ROW and not by the negotiator. The person approving the settlement should be able to judge the risk/benefit issues of a potential court action.

If a revised appraisal review showing new valuation or extent of damage information is performed, then a written revised offer must be made and presented to the owner reflecting the updated consideration. See *Form D* in *Appendix B*. If the revised written offer is accepted, an administrative settlement is <u>NOT</u> required.

6.4.6 Summary of Acquisition Process

The following steps have been provided as a quick guide to help the LPA through the acquisition process:

- Overview and getting started
 - \circ $\;$ Title information, consider everyone that has an interest in the property.

- Good Faith Negotiations, providing the opportunity; time; and consideration to attempt to reach an acceptable agreement.
- Miscellaneous Acquisition Expenses, costs incurred by the owners as a result of the acquisition.
- Provide to the owner the materials necessary to provide good faith negotiations.
- Offers/Notices
 - Provide written offers in the amount of the agency's approved estimate of fair and just compensation.
 - Provide the written notices as to when the property must be vacated.
 - Contracts are written instruments that secure the property rights needed for the project.
 - KDOT has samples available upon request.
- Notes/Documentation
 - o Provide written documentation of negotiations
 - Provides documentation for future inquiries
 - Future problem-solving resource
- Administrative Settlements
 - Describe acquisition
 - Describe reasons for settlement
 - O Ensures future participation

6.5 <u>Relocation Assistance</u>

K.S.A. 58-3502 requires all agencies acquiring ROW to provide relocation assistance benefits to all eligible persons on all projects. Eligible persons include owners and anyone else lawfully occupying the property. Whenever the LPA anticipates displacements requiring Relocation Assistance, the PM must be notified.

Rights and entitlements of individuals, families, businesses, farms and nonprofit organizations displaced by federal-aid projects are defined by and discussed Uniform Act. State Relocation requirements for all other projects being acquired under the threat of Eminent Domain are provided in K.S.A. 26-501 to 26-516. Generally, all persons occupying property to be acquired on the date negotiations begin who are required to move, are eligible for relocation assistance and payments to reimburse the costs of moving personal property to locations off the ROW. In addition, residential displacees who meet minimum occupancy requirements may qualify for replacement housing payments to offset increased costs of obtaining replacement housing payments.

No person lawfully occupying real property shall be required to move from a dwelling or to move from a business or farm operation without at least a 90-day written notice from LPA. Additionally, the landowner/tenant is given a 30-day written notice to vacate after payment has been made by LPA. If condemned, the 30-day written notice to vacate cannot be issued until the compensation has been finally determined and paid into court by the LPA. See <u>49 CFR, Part 24.102 (j)</u>. Since time for ROW acquisition is a major concern for most projects, relocatees should be dealt with as early as possible.

The appeal process described in *Appendix C* applies to relocation benefit resolution as well as incidental expenses. The LPA will need to ensure that the relocatee is aware of the right to appeal and be given an explanation of the process.

The KDOT Bureau of Right of Way maintains a policy and procedure manual for Relocation Assistance approved by FHWA. KDOT recommends the LPA work closely with the PM on Relocation Assistance matters, retain a consultant with the necessary experience, and/or obtain a copy of the <u>KDOT Relocation Assistance</u> <u>Manual</u>.

6.5.1 Personal Property Move

Quite often personal property is located on land being acquired. The owner of the personal property is entitled to relocation assistance and payment for the actual and reasonable costs to move the personal property. The owners of personal property may or may not be the owners of the real estate. The move may be reimbursed through itemized bills and receipts paid to a contractor for the move, or a self-move based upon an agreed to amount considered to be fair and reasonable. Additionally, the 90 and 30-day notices discussed in the Acquisition Section of this Manual (*Section 6.3*) apply to these types of moves.

6.5.2 <u>Residential Moves</u>

The Residential Relocation program was intended to leave the displaced person(s) in a similar situation after the displacement. Eligibility is determined by occupancy, not ownership. Only displaced persons are eligible for the payments to be discussed, which may or may not be the owner of the property.

The following information is not intended to provide all the necessary information pertaining to Residential Moves. Please refer to the <u>KDOT Relocation Assistance Manual</u>, or the PM for more specific information.

• Replacement Housing Requirements

Comparable replacement housing must be made available before a displaced person can be required to move from their home. Comparable replacement housing is defined as being functionally similar, in as good or better condition and in a similar area to the house being acquired. The replacement housing must also meet decent, safe and sanitary criteria.

• Replacement Housing Payments

The purpose of this payment is to provide funds if a shortfall exists between the fair market value and the cost of replacement housing. Replacement housing payments may be calculated as supplemental purchase payments or supplemental rental payments.

Supplemental purchase payments are developed for owner occupants by studying the local market to determine what is available at the time of displacement. The cost of replacement is compared to the amount paid for the house by the LPA. The difference between the two costs is considered the Replacement Housing payment. Specific criteria for developing payments, establishing limits and describing requirements are available through the PM.

Supplemental rental payments are available for displaced non-owner occupants and owner occupants that elect not to purchase replacement housing. The present market rent of the property being acquired is compared to adequate replacement housing present for lease in the local market. The present lease value is then compared to the replacement lease value. The difference between the two costs is considered the supplemental rental payment. Displaced tenants may in certain situations apply their supplemental rental payments as a down payment in the purchase of replacement housing. Specific criteria for developing payments, establishing limits and describing requirements are available through the PM.

Please note, the replacement dwelling considered by the Relocation Agent is only for establishing the amount of payment the eligible displace is entitled. The displace shall always choose the replacement housing they will occupy. The reimbursement shall be made based upon the amount actually spent by the displaced, not to exceed the relocation agent's study.

• Increased Mortgage Payments

This payment is calculated when displaced owner occupants must refinance at a higher mortgage rate than the mortgage on the property being acquired. The payment is limited to the amount owed and the remaining life of the original mortgage.

• Normal and Customary Closing Costs

These are costs that are normal and customary for real estate transactions in the local market. Qualifying expenses may include abstracting costs, recording fees, and credit reports. Certain other expenses may be excluded, such as "points" or prepaid interest. Contact the PM about specific expenses.

Moving Expenses

In addition to other payments, displaced persons are entitled to reasonable moving expenses. These payments may be based upon reimbursement of itemized bills and receipts from qualified movers, or a scheduled payment system. Contact the PM for current federally approved payment schedules and criteria.

6.5.3 Non-Residential Moves

Displaced farms, businesses, and non-profit organizations are also eligible for Relocation Assistance benefits, but the benefits are different that those provided for residential moves. The basic concepts of the major benefits are provided in this Manual. The LPA will need further information from the PM before attempting to provide all the appropriate benefits to a displaced farm or business.

• Re-establishment expenses

These payments are designed to reimburse the actual expenses incurred to re-establish the farm, business, or non-profit organizations in the new location. The present maximum reimbursement for these types of expenses is \$20,000. Offering and providing these services will require specific knowledge and experience. If the LPA has questions contact the PM or other qualified relocation resource.

• Searching Expenses

In some cases, the displacee is entitled to searching expenses in the search for a new location for their farm, business, or nonprofit organization. The present maximum reimbursement is \$2,500. Offering and providing these services will require specific knowledge and experience. If the LPA has questions contact the PM or other qualified relocation resource.

• Incidental Expenses

Other costs incurred in the move may also be eligible for reimbursement. For example: the reprinting of stationary presently on hand with the new address; loss of personal property because of the move or discontinuance of the operation; or the purchase of subsequent personal property required as part of the move. Implementation and offering these services will require specific knowledge and experience. If the LPA has questions contact the PM or other qualified relocation resource.

• Moving Expenses

The displaced non-residential occupant is entitled to actual and reasonable moving expenses. The payments may be based upon itemized bills and receipts from a qualified mover, or payments may be made to the displacee as part of a self-move. If the displace opts for a self-move the LPA should contact the PM for assisting establishing payment.

• In Lieu of Payment

The displacee may opt to receive a payment based upon the net income of the displacee over the last two years. This type of payment is in lieu of all other payments and only available to non-residential displacements. The minimum payment is presently \$1,000 with a maximum payment of \$40,000. Offering and providing these services will require specific knowledge and experience. If the LPA has questions, contact the PM or other qualified relocation resource.

6.5.4 Summary of Relocation Process

- Types of moves
 - Personal property move
 - o Residential move
 - Non-residential move
 - Displacee may be eligible for all three types on the same property.
 - More than one displacee may be involved on the same property.
- Personal Property move
 - Costs to remove personal property from land being acquired.
 - Fixed payment or reimbursement for qualified mover.
- Residential move
 - Decent, safe and sanitary replacement housing must be available
 - Replacement housing payments
 - Replacement rental payments

- Customary and usual closing costs
- Moving expenses
- Non-residential move
 - Re-establishment expenses
 - Searching expenses
 - o Incidental expenses
 - Moving expenses
 - o In lieu of payment

6.6 **<u>Title and Closing and Eminent Domain-Condemnation</u></u>**

This section will discuss Title and Closing and the Eminent Domain-Condemnation processes. Both processes may be described as the act converting possession and/or ownership of property. Title and closing concentrates on transactions where there is a mutual agreement, while Condemnation focuses on those situations where an agreement is not achieved.

6.6.1 <u>Title and Closing</u>

Title and Closing involves examining the legal title to property, determining what actions must be taken to obtain clear title to the ROW and working with the owner to complete the transaction. The desired results are to secure all the documents necessary to ensure clear title of the land is conveyed to the LPA.

The LPA may have their City or County Attorney handle this work a real state specialist or a professional title and closing agency. The closing agent should be someone other than the person who negotiated and/or drafted the contract with the property owner.

If the contract for deed method is used by the LPA (first a contract is signed by the owner accepting the offer and later a deed is signed conveying the land), then the title documents must be drafted from the language of the contract. Sometimes the deed is prepared in advance and signed at the time the offer is accepted. At the time of offer being presented, mortgage holders, lien holders, and taxing authorities must be notified and their interests waived or released as it pertains to the property acquired by the LPA. All conveyances should be recorded in the Office of the Register of Deeds.

Providing payment to the owners is an integral part of the Title and Closing process. The timing of the payment must ensure title has been passed to the LPA, but the owner of the property cannot be required to surrender possession until payment has been received.

KSA 75-6201, 75-6202 and 75-6203 requires agencies to assist in the collection of property taxes and assessments when the property is being acquired for a public use. Applicable taxing authorities should be included during the title and closing process. Payments for Relocation Benefits are exempt from this

requirement as set out in KSA 58-3507. Additionally, <u>since 1991, all real estate transactions have been</u> <u>subject to reporting requirements of the IRS. The LPA must provide appropriate 1099's to the IRS and all</u> <u>parties receiving payments. Even when State funds are used for payment, the 1099 reporting responsibility</u> <u>remains with the local agency</u>. IRS guidelines for this reporting are available from the PM.

6.6.1.1 Summary of the Title and Closing Process

- Examine Title
 - Secure qualified closing assistance
 - Research county records
 - o If necessary, update Certificate of Title or Title Report
- Resolve title issues with owners
 - $\circ \quad \text{Review title for "clouds"} \\$
 - Remove "clouds"
- Acquire all interests
 - o Leaseholds
 - o Lien holders
 - Mortgages
 - Easement holders
 - Taxing authorities

6.6.2 Eminent Domain-Condemnation

Condemnation is the exercise of the power of eminent domain. This power has been reserved to the state, municipalities, political subdivisions and others by federal and state constitutions and law. Guidelines, authorities and procedures are outlined in the KDOT Administrative Condemnation Instructions Manual, prepared by the Office of Chief Counsel.

An administrative condemnation begins with the filing of a petition in the District Court of the county where the property is situated. After statutory notice is given a hearing is conducted by a District Court Judge who determines, upon the face of the petition, that the condemning authority has the power of eminent domain and that the taking is within the lawful purposes of the authority. At that hearing the Judge appoints three disinterested residents of the county to serve as Court Appointed Appraisers and establishes a date on which the appraisers shall file their report. An appraisers hearing is the conducted by the Court Appointed Appraisers to determine just compensation to be awarded by the appraisers. Following the hearing, each party to the condemnation has the right to appeal the appraisers' award to district court.

During condemnation, it is important to acquire all interests at the condemnation hearing. This includes those interests that may not have a market or compensable interest. Applicable taxing authorities should be included in the listing of interested parties identified in the petition for each tract.

Providing payment to the property owners is an integral part of Condemnation process. The Court Appointed Appraisers award must be paid to the Clerk of the District Court before the LPA can require the

owner to surrender possession of the property. The award must be paid regardless of any appeals to District Court. Failure to pay this amount into the court within 30 days will "Vacate" the proceeding. If vacated, the LPA must start the condemnation process all over again and be responsible to pay the defendants legal fees.

6.6.2.1 Summary of the Condemnation Process

- Identify all interests in the property.
 - Leaseholds
 - Lien holders
 - Mortgages
 - Easement holders
 - Taxing authorities
- Payment to the Clerk of the District Court
 - Once monies are deposited in the Court, ownership is immediately transferred to condemning party.
- Record applicable documents
 - Appraisers Report is filed in District Court as a part of proceedings.
 - Copy of Appraisers Report **must** be recorded in the Register of Deeds Office.
- IRS Notification/1099's
 - Acquiring agency responsibility
 - Provide to IRS
 - Provide to all parties receiving payments

6.7 <u>Property Management</u>

A well-planned property management program can enhance the efficiency of LPA projects by avoiding construction delays involving demolition work and maximizing the value of the LPA's assets. The LPA will encounter two phases in managing property: pre-construction and post-construction.

6.7.1 <u>Pre-Construction</u>

• The Inventory

An inventory of the land and/or buildings or other fixtures acquired can be developed as the ROW is identified for the project. This inventory may then be used throughout the project to identify the assets the LPA has acquired. The inventory should include an explanation of how land and/buildings or other fixtures are disposed of, an accounting of management expenses, rental receipts, and payments received for the sale of the land and/or buildings or other fixtures.

• Planning

Pre-construction planning involves the time period between property acquisition and the beginning of project construction. During this time, the LPA will be responsible for the management of the property in a manner consistent with public safety and, acting as a steward of the public's assets, defray or reduce overall costs to the public. There are three basic approaches to property management:

 \circ Leasing

Land and/or buildings or other fixtures may be leased prior to being needed for construction or ultimate disposal. Residential buildings must conform to decent, safe, and sanitary criteria to be leased if federal funds are to be used in any part of your project.

Leasing can reduce the LPAs overall maintenance expenses, as the tenant assumes responsibility for mowing, snow removal and other similar types of usual expenses. Market rent should be received for the properties.

• Sale of improvements to be moved

If leasing the acquired buildings or other fixtures is not desirable, the LPA may wish to consider selling the buildings that are to be removed by the contractor. The successful purchasers are then required to move the improvements from the required ROW.

 \circ Demolition

The LPA could elect to demotion any buildings or other fixtures. If this is the chosen option, ongoing maintenance such as mowing and snow removal should be considered.

6.7.2 Post-Construction

Structures not removed by demolition or public sale should be placed on the construction plans for removal by the Contractor.

6.7.3 Management of Airspace

Temporary or permanent use of airspace may be granted if use is in the public interest and does not interfere with the construction, operation, maintenance, ventilation, and safety of the highway facility.

Use of airspace is subject to prior approval by FHWA when federal funds are participating in the acquisition of ROW, unless granted, without charge, to a publicly owned mass transit authority for public transit purposes.

All airspace leases and submissions for approval must follow the policy requirements contained in the Airspace Guidelines to 23 CFR 710.405 – 710.407.

6.7.4 Other Useful Property Management Information

• Lead based paint Requirements

Residential buildings constructed prior to 1978 are subject to Environmental Protection Agency (EPA) rules. If pre-1978 residential dwellings are sold or leased, the LPA will need to comply with EPA mandated notification requirements. All prospective purchasers or tenants must be informed of any knowledge the LPA has concerning the presence of lead-based paint. However, the LPA does **not** have to inspect the property to determine if lead based paint is present. The LPA must provide a brochure outlining the EPA rules. The pamphlet must be approved by EPA. The LPA may obtain brochures from the PM. In addition, any prospective buyer or tenant must be provided an opportunity to have a pre-1978 residence inspected to determine if lead-based paint is present. The cost of the inspection is the responsibility of the buyer or tenant. Forms documenting this offer are available from the PM.

6.7.5 Summary of Property Management Process

- Pre-Construction
 - Develop Inventory
 - o Lease
 - Sell improvements to be moved
 - o **Demolition**
- Post Construction
 - o Add structures to plans for removal
- Lead-based paint
 - Applies to pre-1978 residential housing
 - Provide known information
 - Provide opportunity to buyers or tenants to test, but at their expense

6.8 <u>Certification of Right of Way</u>

The <u>"Right of Way Clearance Form" (Form 1306)</u> is required from the LPA prior to advertising for construction bids to build the project. BLP must receive this certificate signed by the LPA **four months** prior to the actual letting of the project. This certificate **must** be completed as follows:

- The identification information including, city, county, project number and date.
- The location of improvements and the scope of the project.
- Statement that requirements of paragraph 1 have been met.
- Completion of all six (6) areas of Paragraph 2. If no tracts are needed for the project, then either entering a "None" or "0" response is acceptable.
- Any railroad and utility companies that are affected by the project must have agreements drafted and signed. These agreements will reflect the arrangements made with the company(s) for coordination of work on the project.

- Signature block is signed and dated by the LPA. (Unless required by local by-laws or ordinances, Certification does not have to be signed by governing body).
- Returned to the PM four months prior to letting.

6.9 Miscellaneous Right of Way Topics

This portion of the Manual provides information on miscellaneous topics that the LPA could find useful. These include:

- Access control
- Advanced acquisition
- Donations
- Easements
- Hazardous waste/contaminated properties
- Parcel or Tract -What is it?
- Tenant-owned improvements and leasehold interests
- Frequently asked questions
- Potential problems
- Where do I find?
- Outdoor Advertising Procedures
- Summary

6.9.1 Access Control

Access rights are the rights of adjoining property owners to have unrestricted access to and from the highway. Access Control is the term used when these rights are restricted or controlled. Controlled Access Facilities are discussed in K.S.A. 68-1901, 68-1902, 68-1903, 68-1904 and 68-1905.

Cities and highway authorities may establish controlled-access facilities. When such facilities are established, property owners adjoining the road do not have the right to enter or leave this road unless specifically granted by the highway authority at the time of, or subsequent to the establishment. For existing roadways that have not been previously designated controlled-access, the rights of the adjoining property owner(s) may be acquired. State law specifically states that these rights may not be acquired by prescription or adverse possession--they must be acquired.

In general, acquiring the rights of access to a property does not reduce its market value if reasonable access remains after the acquisition. Therefore, quite often the value or worth of restricting access across a property and allowing access at certain specific locations is zero dollars. There are some cases though where a change in potential property use and market value occurs and the appraiser must determine the difference in the value before and after the acquisition due to the restriction of access.

6.9.2 Advanced Acquisitions

An advanced acquisition is the acquisition of ROW before the final environmental document is approved or before the final design of a highway has been approved. There are two main types of advanced acquisitions, hardship acquisition and protective buying.

If federal funds are to be used in the acquisition of the ROW, the KDOT and FHWA must approve both hardship and protective buying acquisitions. Neither hardship nor protective buying acquisitions will be approved before: (1) public notice has been given of the preferred location of the facility or (2) the public hearing/notification requirements have been met. If state funds are to be used in the acquisition of the ROW, KDOT must give prior approval for the advanced acquisitions.

> Hardship Acquisition

Hardship acquisitions usually occur when a property owner makes a written request to the LPA to acquire the property in advance of the normal time scheduled for acquisition due to a "hardship". The hardship acquisition request to the KDOT by the LPA must include the estimated cost of the acquisition, relocation and incidental costs along with supporting documentation. Justifications must include reasons why the project causes a condition for the owner that is different from or disproportionate to the inconvenience suffered by the majority of others in the project area. Also, a statement is necessary indicating that reasonable alternatives are not open to the property owner that would accomplish relief of the situation without acquiring the property at this time.

Once the LPA initiates the acquisition process a serious commitment has been given to the property owner. The LPA has accepted an obligation to proceed with the acquisition, even if the property must be acquired through condemnation. Federal participation is dependent upon the agency's ability to condemn if necessary. Requests from owners for hardship acquisitions must contain a waiver of all impediments to a condemnation and an agreement to be condemned should negotiations prove unsuccessful. This is to safeguard against the LPA not being able to accomplish their condemnation due to the early nature of a hardship acquisition.

> Protective Buying

Protective buying is purchasing property in advance of the project to preserve a preferred or essential location for the proposed project. Requests to KDOT for protective buying must include the estimated cost of the acquisition. The LPA must give reasons why the request should be considered such as, the costly development or physical alteration of a property is imminent, a zoning change is occurring which will add substantial costs to the parcel acquisition, or a reconstruction of improvements damaged by fire or natural disaster is imminent.

Care must be taken so the final project design is not changed or influenced as the result of an advanced acquisition. If the early acquisition of a parcel is approved but the ROW is ultimately not needed for the project, the LPA will be responsible for the total cost of the acquisition.

6.9.3 Donations

There are occasions when property owners have expressed a willingness to donate the ROW needed for a project, especially when the project will provide a benefit to the property and the community in general. The LPA may also accept an owner's offer to donate the ROW in exchange for services rendered that will benefit the owner. If federal funds are involved in ROW, DSD approval must have occurred.

The owner must always be informed of the right to be paid just compensation for the acquisition, as determined by an appraisal. If agreeable to the donation, the owner may waive the right to an appraisal in which case *Form L* shall be completed. If the landowner requests an appraisal in association with donating the property, *Form M* must be completed. These forms must be kept in the parcel file. (See *Form L* and *Form M* in *Appendix B*).

The requirements of this provision do not apply to dedications of land for public purposes that may be required as part of the platting process pursuant to K.S.A. 12-752.

6.9.4 Easements

Easements are interests in real property that permit the use, but not the ownership, of land. Easements are rights to perform specific acts on land. They may be temporary or permanent in nature. Temporary easements may be held for a specific or an indefinite time. The purposes of easements are as varied as there are uses for real estate. Each easement must be examined to determine the reduction in value to the land directly affected the remaining property, and how much compensation is due the owner. In some cases, they may not cause a damage to or reduction in the value of property.

All easements, whether temporary or permanent, must be considered as a right in land which must be acquired. All easements must be acquired and certified prior to the PS&E phase of the project.

6.9.5 Hazardous Waste/Contaminated Properties

Contamination of property by hazardous materials has become an area of great concern in the development of highway projects. Early detection of contamination of the ROW to be acquired is extremely important in determining project cost, project timing and potential liability. There must be a visual inspection of the possible contamination very early in the project development. Contaminants or items of concern may be as common as petroleum products, above ground or underground fuel storage tanks (UST's), battery waste, building material containing asbestos, certain paints and their residues.

Contamination may appear as soil which is oozing, an area devoid of vegetation, an area which is sunken, an area containing junk containers or other less obvious junk material, or in even less obvious ways. Former gas stations may be identified by UST vent pipes, pump islands or characteristic structural features. Signs of contamination or awareness of prior uses (such as gas station, a manufacturing plant, a dry cleaner, a body shop, homes built prior to 1975, etc.) should lead to further study of the possibility of contamination.

If there are signs of contamination, or if there are underground storage tanks present on the property, good business practices require the property be further evaluated regarding recommended remedial measures and costs prior to proceeding with the acquisition of the property. In addition, state and federal laws administrated through the Kansas Department of Health and Environment and the EPA may need to be considered. Should a property already be acquired at the time contamination is verified, former owners may be determined to be responsible for the clean-up costs, but recouping of such costs can prove difficult.

If you encounter any indications of contamination of any necessary right-of-way, *IMMEDIATELY* contact the PM for further advice and assistance on how to proceed.

6.9.6 Parcel or Tract - What is it?

A parcel may also be described as a tract or tracts of land, or an improvement, or a legal property right owned by a single entity or multiple entities and operated as a single unit. All or part of the larger unit may be required for highway ROW or damaged by highway construction or maintenance.

There are three tests used to determine what constitutes a parcel or tract; unity of use, proximity, and unity of ownership. Unity of use is not limited to the existing use but also the highest and best use to which the property may be put. Proximity is not limited to tracts abutting each other, but rather tracts within proximity that a larger parcel is still a practical, economic unit. Unity of ownership may or may not prove indicative of what makes up a parcel or tract.

• <u>Example</u> - 240 acres of a farm (Farm A) is in the name of just John Smith who is married to Mary. John and Mary Smith jointly own a 240-acre farm (Farm B) one mile away from the first farm, but the properties do not share a common property line. Both farms are farmed together by the couple, but Mary is only on the title for Farm "B". Therefore, these would be two (2) separate tracts due to the fact they have two separate owners and the parcels are not contiguous with each other.

6.9.7 Tenant-Owned Improvements and Leasehold Interests

Tenants are owners of an interest in real property and must be dealt with. Their interests cannot be overlooked and should be identified as early as possible. Leases can be either oral or written and they transfer the rights to use land and/or buildings or other fixtures to the tenant for a specified rent and for a specified period. The first step in determining a leasehold interest is to obtain a copy of the lease, if possible. Other items to look for and consider are sales tax permits (commercial property) and asking who "owns" the crops on agricultural land or who resides in residential property.

Compensation for a tenant-owned improvement is the amount the land and/or buildings or other fixtures contributes to the fair market value of the whole property or its salvage value, whichever is greater. The appraiser should secure the signatures of both the owner of the land and the tenant on a written agreement stating the land and/or buildings or other fixtures owned by each party. This agreement will be included in the appraisal with a suggested allocation of the appropriate amount for the land and/or buildings or other

fixtures to be purchased. The tenant is entitled to accompany the appraiser during an inspection of the tenant-owned land and/or buildings or other fixtures.

If the landowner and tenant don't agree on who owns what, then the LPA needs to include the names of all the owners and tenants together on the same contract and/or acquisition proceeds check, permitting the parties to divide the total amount themselves. The appraiser's suggested allocation of the estimate of just compensation for the tenant and landlord is just that--a suggestion only.

Where there is no dispute on who owns what, the tenant may sign a tenant contract separate from the owner's. This serves as a release of the tenant's interests in the lease. If there are tenant-owned improvements being acquired, these should be itemized on the contract and a subsequent Bill of Sale signed by the tenant transferring ownership of the items to the local agency.

The LPA may not want to accept contracts from an owner or the tenant unless an agreement has been reached with both of them. If an agreement cannot be reached, both interests can be combined and acquired in a single condemnation proceeding, although either the tenant or the owner are entitled to ask for separate awards at the condemnation hearing. Exceptions may include minor acquisitions, tenants with 30-day verbal leases or farm year-to-year leases for either cash or crop share have a minimal financial interest. In these cases, the acquisition may be accomplished by having the tenant sign a separate tenant contract. When dealing with landowners and tenants separately the LPA will need to coordinate the surrender of possession from the various interest holders so as not to delay the project.

For example, an LPA finds a tenant who agrees to relinquish his rights of possession on January 1 and the landowner has not agreed to settle. On January 1, the owner is in a precarious situation for the tenant has left the property and rent is no longer being paid. Would it not be wise for the owner to find a new tenant and collect rent until settlement is reached with the acquiring authority? Relocation payments made to tenants are not payments of just compensation. In the situation described above, if a new tenant arrives on the scene, this new-interested party may be entitled to relocation payments. It will be necessary to determine what relocation benefits, if any, the new tenant qualifies for.

6.9.8 **Typical Questions**

Provided below are frequently asked questions and answers:

How does an LPA find an appraiser, a relocation agent or some other ROW professional? Answer: The PM can provide a list of ROW services consultants who perform and who are familiar with federal and state policies/guidelines.

Can an LPA use a local appraiser?

Answer: If the local appraiser is certified or licensed and qualified to do eminent domain appraisals, then a local appraiser can be used.

Can an employee of the LPA do an appraisal?

Answer: No, but they may complete an "Estimate of Just Compensation" form for acquisitions that are "simple" and compensation is \$10,000 or less per tract.

How long does it take to do an appraisal?

Answer: Depending on the complexity of the parcel and the availability of appraisers, the process may take from 6 to 8 weeks or longer.

How long does it take to review an appraisal? Answer: Depending on the complexity, it can take from 3 to 4 weeks.

Who can act as the agency's negotiator? Answer: A qualified full-time employee of the LPA, or a fee negotiator.

Can the negotiator offer less than the approved appraisal? **Answer**: No.

Can the final agreed compensation exceed the approved appraisal? **Answer**: Yes, provided written documentation in the form of an Administrative Settlement is furnished. It is recommended that the PM be consulted prior to the LPA's commitment to the increased amount.

Can the LPA use its own legal staff for condemnation in the name of the state? **Answer**: Yes, but first contact the PM to make them aware of the situation.

When is possession of condemned property secured?

Answer: When the proceeds of the condemnation proceeding are deposited with the court. If Relocation is involved, the 90-day and 30-day rules do apply as set out in *Section 6.6* of this Manual.

Does the LPA have to acquire temporary easements before we can let our project or can a "Right of Entry" be used?

Answer: Yes, these interests must be acquired and certified prior to the construction of the project. The use of Rights of Entry is not an acceptable alternative to acquiring a temporary easement. (See the *Section 6.9.4*.)

If there is no Federal funding in right-of-way acquisition, must I follow these procedures?

Answer: Yes, if there is Federal funding in **any** phase of the project or program, federal law requires many of these procedures to be followed regardless of federal funding involvement. Additionally, it is recommended that these procedures be followed for all projects, regardless of the funding source.

6.9.9 Potential Problems

The following are LPA potential problem areas frequently encountered on projects. These issues need to be addressed by the LPA.

- Project Size/scope -- These concepts need to be seriously considered when a project is contemplated. If done properly, planning and project scoping can save considerable extra work later. If the LPA lacks sufficient expertise to size and scope the parcel and/or project accurately, it is advisable to contact the PM for assistance.
- Adequate title search -- An early and accurate title search is necessary to determine all ownership interests. An accurate title search must be made for each parcel early in the ROW process. This search must identify the owner and mortgage holders, lessees, judgment holders and major tenants.
- *Right of way plans* -- LPA project planning and construction design must include consideration of existing ROW and construction needs to determine all necessary land and property rights are fully acquired the first time.
- *Lead time identification* -- Attention must be paid to lead time needs. Failure to understand ROW acquisition procedures can add additional time and delay the letting of the project.
- Local right of way administration or management -- Many LPA's are not sufficiently staffed to handle anything other than minor or routine "strip-type" acquisitions. Some LPA's may be limited to low value, uncomplicated acquisitions valued using a Compensation Estimate.
- Part-time and inexperienced professional staffs -- Many LPA's cannot justify or generate the necessary funding to retain full-time staffs which may only be involved with ROW projects from time to time. Consequently, when a project occurs your agency may be understaffed. In these situations, the LPA may want to consider using KDOT assistance and/or consultant resources.
- Appraisal process and product questions -- Some LPA's have expressed a desire to ignore in disbelief the value of the appraisal process and the appraisal itself, the product of this process. Federal and state laws and regulations have been written, passed and implemented to reinforce the premise that the appraisal process works, helping to protect both the public in general and the individual property owner affected by public works projects.

6.9.10 Where Do I Find....?

Included is a list of references and an abstract of what is contained in those resources. Many of these references may be obtained from BLP, KDOTs Bureau of Right Way, or the FHWA.

- *KDOT Bureau of Right of Way Policy and Procedures Manuals* -- These manuals collectively cover all aspects of the ROW process. Topics covered include Appraisal, Acquisition, and Relocation Assistance.
- Kansas Statutes Annotated K.S.A. has many chapters and sections which apply to the purchase of ROW for highway purposes. The manner prescribed for most procedures are found in Chapters 12, 13, 75 and 76.
- *Federal Regulations* -- The primary ones are 23 CFR and 49 CFR Part 24. 23 CFR deals with highways in general. 49 CFR Part 24 is implementing regulation covering the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 as amended.
- Department of Treasury, Internal Revenue Sec. 1.6045-4 -- The IRS regulations describing the reporting of real estate transactions are found in this section.

6.9.11 Outdoor Advertising Procedures for Right of Way Acquisition

If any portion of the sign structure protrudes into the ROW it must be either removed or relocated. The sign(s) shall be appraised if determined to be eligible for compensation or relocation by the KDOT Beautification Section.

A digital picture of the sign(s) affected by the highway project must be taken and submitted to the Beautification Section along with the location of the sign including highway project number and station with approximate mile marker. The Beautification Section will determine the classification of the structure and if it is eligible for compensation or relocation.

If the sign is determined by KDOT to be illegal or otherwise not compensable or re-settable, the Beautification Section will inform the sign owner of the project and status of the sign.

6.9.11.1 Sign Classes

There are four classes of outdoor advertising structure that could be found on any highway project:

- 1. Legal Conforming
 - a. This structure is a sign that is in zoned or un-zoned commercial or industrial areas.
 - b. It can be made of any material and may be of any size up to 1200 square feet which was allowed prior to July 2006.
- 2. Legal non-conforming

- a. These are signs constructed prior to 1972 and are generally in agriculture or residential zoned or un-zoned areas.
- b. This structure is generally compensable but not eligible to be re-set.
- 3. Service signs
 - a. Signs for churches and non-profit organizations.
 - b. Are generally small (32 square feet or less).
 - c. Are compensable if determined by KDOT to be eligible.
 - d. The sign owners should contact KDOT prior to resetting the sign off the new ROW.
- 4. On Premise Signs
 - a. Are located on the property advertised by the sign.
 - b. Are considered part of the property and should be included in the appraisal of the tract they are on. (Note: There are cases when the sign owner may be different than the land owner.)

6.9.11.2 <u>Process</u>

Sign is determined to be "off premise" and is in the new ROW (any portion of the sign).

Steps for Appraiser

- Appraiser to take digital picture
- Determine MM if available
- Determine Location (station) on plans (Include project number)
- Provide Sign Tag Number (Green tag should be visible on most signs)
- E-mail or mail picture and information above to KDOT Beautification Section

KDOT Beautification will respond with:

- Status/class and Eligibility of sign to be compensable or reset
- Sign owner information will be forwarded to the appraiser
- Land owner information verified
- Specifications on file for size (may need to be verified by Appraiser)
- Illegal or non-compensable Signs will be addressed by the Beautification Section

Appraiser:

- Notification letter sent to sign owner of status by appraiser for compensable/movable signs
- **Appraisal to be turned in separate Tract file to Chief Appraiser

** Note: The sign owner must submit a new application to move the sign that is determined to be re-settable but the State application fee will not be required. However, the owner will be responsible for local permits required to re-set any sign.

Appendix A – Checklists

Appendix B – Forms

Appendix C – Appeal Procedure

Appendix D – Kansas Statutes

Note: Fillable PDF versions of the **Checklists** and MS Word versions of the **Forms** are available for your use.

Please contact your PM or email <u>KDOT.LPePlans@ks.org</u> to obtain them. Ask for the "ROW Docs 2018.zip" file.

Appendix A - Checklists

The following checklists are included in this appendix:

Checklist A - Checklist for Determining Complex Parcel for Appraisal Purposes Checklist B - Local Public Agency Right of Way Staffing Needs Inventory Checklist C - Local Public Agency Project Checklist Checklist D - Parcel Specific Valuation Process Review Checklist E – Parcel Specific Acquisition Process Review Checklist F – Parcel Specific Relocation Process Review Checklist G – Right of Way Record Check Sheet

Note: Fillable PDF versions of the **Checklists** are available for your use.

Please contact your PM or email <u>KDOT.LPePlans@ks.org</u> to obtain them. Ask for the "ROW Docs 2018.zip" file.

Checklist A - Checklist for Determining Complex Parcel for Appraisal Purposes

LPA:	Project No.: Title:		
Name of Person Contacted:		Title:	
Phone No.:	Date of Contact:	Time:	

It is the responsibility of the LPA to determine the complexity of a parcel. The following are yes/no questions, to provide guidance and assistance in making that determination. If the answer to any of these questions is yes (or even maybe), the parcel may have sufficient complexity to classify it as "complex". A "yes" answer should be an alert that more questions need to be asked.

- 1. Why is the acquisition over \$10,000?
- 2. Is the acquisition anything more than a "strip acquisition"?
- 3. Are there any buildings, wells, signs, etc. being affected?
- 4. Is the acquisition severing any buildings from the remainder?
- 5. Are trees, shrubs, or any other landscaping involved?
- 6. Is the ROW line closer to any building after the acquisition to require analysis of possible proximity damages?
- 7. Is access to the property changed or limited?
- 8. Is the current highest and best use of the property going to be changed because of the acquisition?
- 9. Does a significant amount of the total compensation involve items other than land value?
- 10. Are there any borrow areas?
- 11. Is there reason to believe this parcel will proceed to condemnation?
- 12. Is more land than is needed being acquired?
- 13. Are there any other considerations that complicate the valuing of this parcel?

Checklist B - Local Public Agency Right of Way Staffing Needs Inventory

РА:	
Project No.:	Date:
roject Location:	
imits:	
Contact Person:	Telephone #:
ignature:	Title:
CHECK BELOW IF YOU REQUIRE ASS	ISTANCE IN THE AREAS ITEMIZED
MANAGEMENT	NEGOTIATIONS
Training in ROW functions and	Contract drafting for acquisitions
procedures	Tenant interests
Determining sufficient Lead Time	Required procedures to follow
necessary to acquire Right of Way properly	Required record keeping
Measuring Scope or difficulty of Right of	
Way Acquisition	CONDEMNATION
	General procedures
ENGINEERING AND DESIGN	Notice preparation
Adequate title search	Establishing a hearing date
Improvements located on plans	Conduction hearing in-Agency
Plans cross sections	
Property legal descriptions	RELOCATION ASSISTANCE
Land Surveyor's property plats	Moving personal property
	Residential relocations
ENVIRONMENTAL ASSESSMENT	Business moves
Underground storage tanks	
Hazardous waste	TITLE AND CLOSING
	Determining all interests in land
Asbestos	
Asbestos	acquisition
Asbestos	acquisitionTitle transfer procedures
Asbestos	acquisition

APPRAISALS Minor parcels (\$10,000 or less)	PROPERTY MANAGEMENT Asbestos removal and disposal
Regular partial acquisitions (\$2500 to	Assestos removal and disposal Renting property
\$15000)	Building demolition contracting
Major significant acquisitions (over	Selling unneeded (excess) Right of Way
\$15000)	
<i>¹³⁰⁰⁰</i>	LEGAL
APPRAISAL REVIEW	Administrative advice - Title and Closing,
Minor parcels (\$2500 or less)	Condemnation hearing, appeals to District
Regular partial acquisitions (\$2500 to	Court
\$15000)	
Major significant acquisitions (over	
\$15000)	
OTHER PERTINENT INFORMATION	
1. Number of parcels involved in this pro	-
2. Is Relocation Assistance involved in th	is project?
3. Date of last public improvement acqui	isition
 a) What type of project was acquire 	ed?
b) Was the DOT Right of Way Office	e involved?
4. Do you have copies of current DOT RC	OW Office Manuals?
5. Names of and functions performed by	persons assigned to this project:
COMMENTS/QUESTIONS?	

Checklist C - Local Public Agency Project Checklist

LPA: _____

Project: _____

	YES	NO	N/A
PLANNING AND PREPARATION:			
Notified DOT of project			
Contact DOT PM for Right of Way information			
Scope project and consider right of way needs			
Prepare parcel files			
Research title			
Layout right of way needs			

REQUESTS AND APPROVALS:		
Request authorization for incidental right of way		
reimbursement		
Apply for hardship/advance purchases (if any)		
Receive environmental clearances		
Receive authorization to acquire right of way		

COMPLETING THE ROW PROCESS:		
Provide 30 day notices of Public Hearings		
Provide landowners Statement of Rights		
Value property rights (Appraisal or Appraisal Waiver Process)		
Values reviewed (Appraisal or Appraisal Waiver Process)		
Develop Relocation Assistance Offers		
Send full appraisals 10 days before opening negotiations		

Provide good faith negotiations		
Offer Relocation Assistance		

WRAPPING UP:		
All parcels acquired or condemned		
Secure possession of all parcels		
Clear all properties		
Plan turn in		
Let project		

Other remarks:

Checklist D - Parcel Specific Valuation Process Review

Project:	_ Parcel No:
LPA:	_

	Acceptable	Concern	Problem	N/A
Basics of Appraisal:				
Owner offered opportunity to accompany				
5-year delineation of title provided				
Tenants identified and considered				
Adequate property information provided				
Appropriate selection of appraisal format				

The Report:		
Applicable approaches to value developed		
Discussion as to why approaches not developed		
Persuasive highest and best use analysis		
Adequate support for all conclusions		
Non-compensable items ignored		
Tenant owned improvements identified		
Allocation of major leasehold interests		

Review Appraiser:		
Reviewer competent for assignment		
Errors were identified		
Fair Market Value supported		
Differences between appraisals reconciled		
Appropriate actions taken on appraisal inadequacies		

Appraisal Waiver (Compensation Estimates)		
Uses of C.E.'s were appropriate		
Approved process utilized		
Competent person provided estimate		
Compensation Estimate reviewed		

Other remarks:

LPA Project Development Manual

Checklist E - Parcel Specific Acquisition Process Review

Project:	 	
Parcel No:	 	
County:		
LPA:		

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	Acceptable	Concern	Problem	N/A
OFFERS:				
Original offer not less than approved value				
Revised offers if original offer modified				
30-day and 90-day notices within offers				
Statement of Rights provided				
Tenant offers				

DOCUMENTATION:		
Completed contracts or agreements		
Negotiation contact notes		
Copies of all negotiation correspondence		
Explanatory administrative settlement		
Breakdown of payments		
Applicable estimates		
Evidence of good faith negotiations		
Compensation estimates approved		

Other comments or concerns:

Checklist F - Parcel Specific Relocation Process Review

Project:	 	 	
Parcel No:	 	 	
County:	 		
LPA:			

	Acceptable	Concern	Problem	N/A
GENERAL:				
General Information provided				
Services offered and furnished to displacee				
Relocation benefits explained to displacee				

NOTICES:		
Comparable dwellings available at displacement		
Notice of eligibility issues		
90-day and 30-day notices issued		

OFFERS:		
Offers of all applicable benefits to owner		
Offer of all applicable benefits to tenant		
RHP or basis of offer provided in writing		
Replacement DSS inspection prior to move		

REIMBURSEMENTS:		
Moving costs paid		
Appropriate incidentals paid		
Increased mortgage computed and paid		
RHP paid to owner		
RHP paid to tenant		

CONCLUSIONS:		
Appeal process explained		
Appellant notified in writing of determination		
Absence of discrimination		

Other remarks:

LPA Project Development Manual

Checklist G - Right of Way Record Check Sheet

County:	Project No.:	
Parcel No.:	Owner(s):	
LPA:		
Tenant(s):		
Dates:		_
<u>Step Month/Day/Year</u>	Procedure	
1	Environmental Concurrence from KDOT (received prior to any righ	וt of
	way negotiations)	
2	Owner and tenant (if applicable) notified of City/County interest in	n
	acquiring property (as soon as feasible)	
3	Notice given to owner or owner's representative of	
	opportunity to accompany the appraiser (N/A if not applicable)	
4	Appraisal conducted at property	
5	Appraisal completed byas per certificatio	n
6	Review appraisal completed byas per certification	on
	(Must NOT be the same person as the appraiser or negotiator)	
7	Agency approval of just compensation	
8	Written offer and written statement of the basis for the offer give	n to
	owner (at least ten days prior to contact by negotiator)	
9	Owner and tenant contacted by as negotiator	
	(Must be different person than the appraiser or review appraiser)	
10	Offer accepted/rejected by owner	
11	Offer accepted/rejected by tenant	
12	Condemnation notice (if agreement is not reached)	
	(N/A if not applicable)	
13	Payment made to owner & tenant or, if condemnation (deposited	ļ
	with the Clerk of the District Court)	
14	Possession of Property	

NOTE: Sheet should be completely filled out for each parcel and attached to parcel documentation.

Appendix B – Forms

- **Form A** Initial Agency Contact Letter Informs property owner that part of their property is to be acquired for the project and that an appraiser will be contacting them soon.
- Form B Appraisal Mailing Letter
- Form C Offer Letter to Purchase
- Form D Revised Offer Letter to Purchase
- Form E Tenant's Release of Damage
- Form F Right of Way Acquisition and Negotiation Notes
- Form G Estimate of Just Compensation used to document estimate
- Form H Standard Appraisal Report
- Form I Short Form Appraisal Report
- Form J Appraisal Assumptions, Compliances and Facts
- Form K Certificate of Appraiser contains certification statements of appraiser
- **Form L** Donation Form, Appraisal Waived Property owner signs this donation form to waive rights to just compensation. This form also waives right to an appraisal.
- **Form M** Donation Form, Appraisal Not Waived Same as Form L except the right to an appraisal is not waived.
- Form N City/County Certification Form
- Form O Administrative Settlement
- Form P 90-Day Guarantee
- Form Q 30-Day Notice to Vacate

Note: MS Word versions of the **Forms** are available for your use. Please contact your PM or email <u>KDOT.LPePlans@ks.org</u> to obtain them. Ask for the "ROW Docs 2018.zip" file.

Form A - Initial Agency Contact Letter

Date Landowners Name Address City, State Zip

Re: <u>Project Number</u> Tract Number

Dear Landowner:

The Agency is planning a Street, Intersection, Etc. project which requires the purchase of a portion of your property. A survey has been conducted to determine the amount of your land which the project requires.

In the near future, an appraiser will be contacting you to secure your permission to inspect your property for the purpose of valuing it. The appraiser will offer you the opportunity to be present during this inspection if you so desire.

Sincerely,

Agency

Form B - Appraisal Mailing Letter

Date

Landowners Name Address City, State Zip

Re: <u>Project Number</u> Tract Number

Dear: Landowner

The <u>Agency</u> is planning a Street, Intersection, Etc... project which will require additional Right-of-Way along the route. County records indicate that you have ownership interest in land that is affected by the proposed construction project.

I have been assigned to appraise the land to determine value of the acquisition required from your property. The purpose of this letter is to give you the plan information for your land and offer to meet with you or your representative to inspect your property and discuss the project.

The enclosed booklet explains the process we use in acquiring property for highway projects. Additionally, I have included a legal description and drawing of the planned project as related to your property.

Please contact me at <u>Phone Number</u> to arrange an appointment. Sincerely,

Appraisers Name Right of Way Property Appraiser Enclosures Cc: Tract File

Form C - Offer Letter to Purchase

PROJECT:		DATE:
COUNTY:		TRACT NO:
LOCATION:	A tract of land in	

Dear

:

The Agency Name has approved a program for the construction and improvements of the abovementioned project. To accomplish the anticipated improvements, it will be necessary to acquire certain real property as indicated on the engineering plan and more particularly described in the instruments which will be presented to you for signature(s), if you are receptive to the offer.

Based upon the fair market value of such real property, as determined by established procedures, the Agency Name offer you the sum of _____ Dollars (\$_____) for your real property, which has been determined to be just compensation for your property, or the portion thereof to be acquired.

The amount quoted includes the following items:

Real property to be acquired as right of way: _____ (Acres)

Buildings acquired with right of way: _____

Other easements, if any: Permanent _____ (Acres), Temporary _____ (Acres)

The following tenant owned improvements are not included in the above quoted amount(s):

If you desire to retain the buildings located on the proposed right of way, the amount of the offer is reduced to _____ Dollars (\$_____). Also, if the buildings are retained, you will be required to post a bond to insure the removal of improvements in the amount of \$_____.

The basis of the offer was established by an appraisal made by personnel trained in real estate appraisal techniques. The appraisal process is designed to establish the fair market value of the property. The original appraisal is further considered and reviewed by one of the State's reviewing appraisers who will also perform a visual inspection of the property. The appraiser disregards any decrease or increase in the before value caused by the project for which the property is being acquired.

The above offer will not be altered unless additional value information or evidence is presented or otherwise becomes known to the Agency Name. In such case, it will then be necessary to have an administrative review to determine if the offer should be changed. Should our offer not be acceptable to you, our only alternative under established procedure is to proceed under the laws of eminent domain (sometimes known as "condemnation" procedure).

In the event of either negotiation or condemnation, the landowner will be paid in the full amount of the negotiated settlement, or the amount of just compensation allowed by the court appraisers, prior to the time the Agency Name will require the landowner to vacate the property.

The fifteen items set forth in K.S.A. 26-513 (listed below), if applicable to your property, were considered in ascertaining the amount of compensation and damages. Other factors may also have been considered. They were not considered as separate items of damages, but were considered only as they affect the total compensation and damages established by our appraiser.

- 1. The most advantageous use to which the property is reasonably adaptable.
- 2. Access to the property remaining.
- 3. Appearance of the property remaining, if appearance is an element of value in connection with any use for which the property is reasonably adaptable.
- 4. Productivity, convenience, use of the property taken, or use of the property remaining.
- 5. View, ventilation and light, to the extent that they are beneficial attributes to the use of which the remaining property is devoted or to which it is reasonably adaptable.
- 6. Severance or division of a tract, whether the severance is initial or is in aggravation of a previous severance; changes of grade and loss or impairment of access by means of underpass or overpass incidental to changing the character or design of an existing improvement being considered as in aggravation of a previous severance, if in connection with the taking of additional land and needed to make the change in the improvement.
- 7. Loss of trees and shrubbery to the extent that they affect the value of the land taken, and to the extent that their loss impairs the value of the land remaining.

- 8. Cost of new fences or loss of fences and the cost of replacing them with fences of like quality, to the extent that their loss impairs the value of the land remaining.
- 9. Destruction of a legal nonconforming use.
- 10. Damages to property abutting on a right of way due to change in grade where accompanied by a taking of land.
- 11. Proximity of new improvements remaining on condemnee's land.
- 12. Loss of or damage to growing crops.
- 13. That the property could be or had been adapted to a use which was profitably carried on.
- 14. Cost of new drains and loss of drains and the cost of replacing them with drains of like quality, to the extent that such loss affects the value of the property remaining.
- 15. Cost of new private roads or passageways or loss of private roads or passageways and the cost of replacing them with private roads or passageways of like quality, to the extent that such loss affects the value of the property remaining.

Value of entire property of interest "before" taking	\$
Value of entire property of interest "after" taking	\$
Value of the right of way to be acquired:	
<i>c</i> , <i>i</i> , <i>i</i> ,	\$
	- T
	-
Value of the permanent easement to be acquired:	
	\$
	-
Value of the temporary easement to be acquired:	
	<u>\$</u>
	-
Right of way and easement minimum compensation	adjustment: \$
Minimum compensation \$ less land	
·	
and easement total \$ = \$	
Damages:	
Damages.	\$

Cost to cure items:	\$			
TOTAL COMPENSATION				
AND MEASURE OF DAMAGES:	\$			
Agency Nam	ne			
ВҮ:				

Acquiring Agent

Form D - Revised Offer Letter to Purchase

PROJECT:		DATE:
COUNTY:		TRACT NO:
LOCATION:	A tract of land in	

Dear

:

The Agency Name has approved a program for the construction and improvements of the abovementioned project. To accomplish the anticipated improvements, it will be necessary to acquire certain real property as indicated on the engineering plan and more particularly described in the instruments which will be presented to you for signature(s), if you are receptive to the offer.

Based upon the fair market value of such real property, as determined by established procedures, the Agency Name offer you the sum of _____ Dollars (\$_____) for your real property, which has been determined to be just compensation for your property, or the portion thereof to be acquired.

The amount quoted includes the following items:

Real property to be acquired as right of way: _____ (Acres

Buildings acquired with right of way: _____

Other easements, if any: Permanent _____ (Acres Temporary _____ (Acres

The following tenant owned improvements are not included in the above quoted amount(s):

If you desire to retain the buildings located on the proposed right of way, the amount of the offer is reduced to _____ Dollars (\$_____). Also, if the buildings are retained, you will be required to post a bond to insure the removal of improvements in the amount of \$_____.

The basis of the offer was established by an appraisal made by personnel trained in real estate appraisal techniques. The appraisal process is designed to establish the fair market value of the property. The original appraisal is further considered and reviewed by one of the State's reviewing appraisers who will also perform a visual inspection of the property. The appraiser disregards any decrease or increase in the before value caused by the project for which the property is being acquired.

The above offer will not be altered unless additional value information or evidence is presented or otherwise becomes known to the Agency Name. In such case, it will then be necessary to have an administrative review to determine if the offer should be changed. Should our offer not be acceptable to you, our only alternative under established procedure is to proceed under the laws of eminent domain (sometimes known as "condemnation" procedure).

In the event of either negotiation or condemnation, the landowner will be paid in the full amount of the negotiated settlement, or the amount of just compensation allowed by the court appraisers, prior to the time the Agency Name will require the landowner to vacate the property.

The fifteen items set forth in K.S.A. 26-513 (listed below), if applicable to your property, were considered in ascertaining the amount of compensation and damages. Other factors may also have been considered. They were not considered as separate items of damages, but were considered only as they affect the total compensation and damages established by our appraiser.

- 1. The most advantageous use to which the property is reasonably adaptable.
- 2. Access to the property remaining.
- 3. Appearance of the property remaining, if appearance is an element of value in connection with any use for which the property is reasonably adaptable.
- 4. Productivity, convenience, use of the property taken, or use of the property remaining.
- 5. View, ventilation and light, to the extent that they are beneficial attributes to the use of which the remaining property is devoted or to which it is reasonably adaptable.
- 6. Severance or division of a tract, whether the severance is initial or is in aggravation of a previous severance; changes of grade and loss or impairment of access by means of underpass or overpass incidental to changing the character or design of an existing improvement being considered as in aggravation of a previous severance, if in connection with the taking of additional land and needed to make the change in the improvement.
- 7. Loss of trees and shrubbery to the extent that they affect the value of the land taken, and to the extent that their loss impairs the value of the land remaining.
- 8. Cost of new fences or loss of fences and the cost of replacing them with fences of like quality, to the extent that their loss impairs the value of the land remaining.

- 9. Destruction of a legal nonconforming use.
- 10. Damages to property abutting on a right of way due to change in grade where accompanied by a taking of land.
- 11. Proximity of new improvements remaining on condemnee's land.
- 12. Loss of or damage to growing crops.
- 13. That the property could be or had been adapted to a use which was profitably carried on.
- 14. Cost of new drains and loss of drains and the cost of replacing them with drains of like quality, to the extent that such loss affects the value of the property remaining.
- 15. Cost of new private roads or passageways or loss of private roads or passageways and the cost of replacing them with private roads or passageways of like quality, to the extent that such loss affects the value of the property remaining.

Value of entire property of interest "before" taking	\$
Value of entire property of interest "after" taking	\$
Value of the right of way to be acquired:	
	\$
Value of the permanent easement to be acquired:	
	\$
Value of the temporary easement to be acquired:	\$
Right of way and easement minimum compensation ac	djustment: \$
Minimum compensation \$ less land	
and easement total \$ = \$	
Damages:	
- 	\$
Cost to cure items:	\$

TOTAL COMPENSATION AND MEASURE OF DAMAGES: \$_____

Agency Name

BY: ----

Acquiring Agent

Form E - Tenant's Release of Damage

Date

<u>City/County</u> <u>Project Number</u> <u>Tract Number</u>

Know all men by these present that _____ agree on this _____ day of _____, ____, in exchange for and in consideration for the benefits derived from the project which include _____ do release, remise and forever cease to claim to themselves, their heirs executors and assigns any and all damages arising out of the building of Road, Intersection, Etc. Project No. _____, ____County, and agree to hold the Agency harmless from any and all other damages of any nature whatsoever.

Negotiator

Form F - Right of Way Acquisition and Negotiation Notes

Project Number

Tract Number

<u>Landowner</u>

City/County

TITLE INFORMATION:

Owners of Record Information

NEGOTIATION NOTES:

Complete Narration of Contacts

FOLLOW-UP/PENDING:

If Any

DATE

By: Signed by Negotiator

Form G - Estimate of Just Compensation

It is determined that an appraisal is not required because the valuation problem is uncomplicated and the fair market value of the acquisition area is estimated at \$10,000 or less.

COUNTY:	PROJECT NO:	TR NO:
OWNER:	TENANT:	
ADDRESS:	ADDRESS:	
CITY/ST:	CITY/ST:	
PHONE:	PHONE:	
Insp Date:	Insp'd With	Date Acq'n Booklet Furnished:
COMPARABLE S	ALES	
Sale Sale Lo	ocation Sale	Unit
No. Date (S	S-T-R) Price Area \	Value

NOTES:

PROJECT REQUIREMENTS:

Item	Area	Unit Value	Value

OTHER ACQUISITION ITEMS:

COST TO CURE ITEMS:

ESTIMATED TOTAL COMPENSATION

Partial Take:	Feder	Federal Project No:		
Whole Take:	State	Project No:		
Other:	County:	Tract N	No:	
Location and	Address:			
Legal Descript	tion:			
Owner's Name and Address:				
Present Use: Zoning:	Highe	st & Best Use:		
Subject Prope	erty Sales Reco	rd (last 5 yrs. re	quired)	. If none, check
Grantor/Gran	itee Date	Book/Page	Price	Verified By

Purpose of the Appraisal: The purpose of the appraisal is to estimate the compensation due the owner for, or as a result of, the acquisition of a part or all of his/her real property, or interest therein, for a highway or related purpose.

VALUATION SUMMARY Area of Whole Property: Areas to be Acquired: Acquisition Needs Unit Price Value

Other Acquisition Items (List and show value):

Area of Remainder:

Cost to Cure (List and show value):

Other:

TOTAL COMPENSATION

Date of Appraisal:

Dated:

Appraised By:

Form I - Short Form Appraisal Report

Partial Take		Federal	Number:		
Whole Take		State Pr	oject:		
Other		County:			
Tract No:					
Location and A	ddress	:			
Legal Description	on:				
Owner's Name	and A	ddress:			
Tenant's or Les	see's:				
Present Use:		Zoning:			
Highest and Be	st Use:	Before	– / Aft	er –	
Subject Proper	ty Sale	s Record	(last 5 yrs. r	equired).	If none, check ().
Grantor/Grante	ee	Date	Book/Page	Price	Verified By

Purpose of the Appraisal: The purpose of the appraisal is to estimate the compensation due the owner for, or as a result of, the acquisition of a part or all of his/her real property, or interest therein, for a highway or related purpose.

VALUATION SUMMARY

Area of Whole Property: Acres

Areas to be Acquired:

Other Acquisition Items:

Cost to Cure (List and show value):

Estimated Just Compensation

DATED:

APPRAISED BY:

Form J - Appraisal Assumptions, Compliances and Facts

Project No. _____

Parcel No. _____

PURPOSE OF THIS APPRAISAL:

To estimate the market value of the ownership interest, and the leasehold interest if any, in this property before the proposed acquisition by the City/County of ______ and the market value of the same interest in the remainder property immediately after the proposed acquisition. In the case the proposed acquisition causes only limited damage, the purpose is to estimate total loss in value caused by the acquisition without reporting before and after values. This appraisal considers the loss in value, if any, of owner's rights in advertising signs being acquired and is made without consideration of any enhancement that might accrue from the proposed improvement.

DEFINITION OF MARKET VALUE:

The cash price which would be arrived at as between a voluntary seller willing but not compelled to sell and a voluntary purchaser willing but not compelled to buy, both whom are acting freely, intelligently and at arm's length, bargaining in the open market for the sale and purchase of the real estate in question.

DEFINITION OF HIGHEST AND BEST USE:

The allowable use, for which sufficient demand can be shown, at which at the date of the appraisal is most likely to produce the greatest net return to the property over a given period of time.

DATE OF VALUATION:

The values of this property, both before and after the proposed acquisition, are estimated as of

_____, 20____.

FIVE YEAR DELINEATION OF TITLE: (If none, so state)

Type of Date of Sale <u>Grantor Grantee Instr. Instr. Book Page Price</u>

LEASES:

Name of Lessee:

Lessee's Mailing Address:

Discussion of lease and its terms:

DATE OF INSPECTION AND INVITATION:

I personally inspected the	subject property on	, 20, and
interviewed	who is the	I
offered	an opportunity to acco	ompany me on my inspection of this
property and he	that invitat	ion. This invitation was extended by
	on	, 20
(managed as where the law has		

(personal contact, telephone or letter)

Form K - Certificate of Appraiser

County: ____ Tract No: ____

Federal Aid Project Number: _____ Project No: _____

I HEREBY CERTIFY:

That I have personally inspected the property herein appraised and that I have also made a personal field inspection of the comparable sales relied upon in making said appraisal. The subject and the comparable sales relied upon in making said appraisal were as represented in said appraisal or in the data book or report which supplements said appraisal.

That to the best of my knowledge and belief the statements contained in the appraisal herein set forth are true, and the information upon which the opinions expressed therein are based as correct; subject to the limiting conditions therein set forth.

That I understand that such appraisal is to be used in connection with the acquisition of right-ofway for a project to be constructed by the State of Kansas with the assistance of Federal-aid highway funds, or other Federal funds.

That such appraisal has been made in conformity with the appropriate State laws, regulations and policies and procedures applicable to appraisal of right-of way for such purposes; and that to the best of my knowledge no portion of the value assigned to such property consists of items which are non-compensable under the established law of said State.

That neither my employment nor my compensation for making this appraisal and report are in any way contingent upon the values reported herein.

That I have no direct or indirect present or contemplated future personal interest in such property or in any way benefit from the acquisition of such property appraised.

That I have not revealed the findings of such appraisal to anyone other than the proper officials of the Kansas Department of Transportation or officials of the Federal Highway Administration and I will not do so until so authorized by State officials, or until I am required to do so by due process of law, and until I am released from this obligation by having publicly testified as to such findings. Any increase or decrease in the fair market value of real property prior to the date of valuation caused by the public improvement for which such property is acquired, or by the likelihood that the property would be acquired for such improvement, other than that due to physical deterioration within reasonable control of the owner, was disregarded in determining the compensation for the property.

The owner or his designated representative was on _____, 20____, given the opportunity to accompany the appraiser during the inspection of the property. Property inspected with _____ on

That my opinion of just compensation for the acquisition as of the _____ day of _____, 20____, is _____ based upon my independent appraisal and the exercise of my professional judgment.

Ву: _____

Form L - Donation Form, Appraisal Waived

Date:	
County:	
Project:	
Fed. Proj.:	
City:	
Tract No.:	

DONATION OF RIGHT OF WAY AND WAIVER OF APPRAISAL

The undersigned owner(s), having been fully informed of their right(s) to have the property appraised, and to receive just compensation based upon an appraisal, have decided to waive their right(s) to an appraisal and to donate their property interests to the City or County.

The undersigned owner(s) further state(s) that the decision to waive their right(s) to an appraisal was made without undue influences or coercive action of any nature.

LPA Project Development Manual

Form M - Donation Form, Appraisal Not Waived

DATE	
COUNTY	
PROJECT	
CITY	
TRACT NO.	

DONATION OF RIGHT OF WAY

This letter will serve to verify we were fully informed and advised of our rights to receive just compensation for the acquisition of a portion of our property for the construction of the above noted project.

We further wish to acknowledge that because of the benefits to be derived from this street/road improvement, we waive all right for compensation and will donate the necessary land to the City or County of the State of Kansas.

FORM N - City/County Certification Form

STATE OF KANSAS

CITY FEDERAL AID PROJECTS RIGHT-OF-WAY CLEARANCE

CERTIFICATION BY THE CITY TO THE KANSAS DEPARTMENT OF TRANSPORTATION OF REAL PROPERTY ACQUISITION PROCEDURES AND UTILITY ARRANGEMENTS

DATE PROJECT NUMBER COUNTY

WHEREAS: Said improvement is located Abbreviated Location Description, and

WHEREAS: Said improvement consists of Description of Improvements, hereinafter referred to as Project, and

WHEREAS: The Secretary of Transportation of the State of Kansas, hereinafter referred to as the Secretary, as agent for the City of ______, Kansas, hereinafter referred to as the City have entered into an agreement dated Date, and

WHEREAS: The above referenced agreement requires the City to certify compliance with Kansas Department of Transportation and Federal Highway Administration Right-of-Way Acquisition procedures.

NOW THEREFORE, THE CITY HEREBY CERTIFIES:

1. That all of the right-of-way (R/W) and easements for borrow pits, channel changes, and/or other construction as indicated on the plans as necessary for the construction of the Project have been acquired, including legal and physical possession, evidenced by said documents being recorded in the Register of Deeds office. All acquisitions were completed by the City in compliance with the Federal Uniform Relocation Assistance and Real Property Acquisitions Policies Act of 1970 (42 U.S.C. 4601 et seq.), and amendments thereto, BLP MEMOS 99-2 and 02-11 and Attachments 1 through 9, and the Federal Highway Administration's booklet entitled, Real Estate Acquisition Guide for Local Public Agencies. 2. That the total number of tracts acquired equals: _____

A: Number of tracts purchased: _____ B: Number of tracts condemned: _____ C: Number of tracts donated: _____

 If buildings, structures, or other improvements owned by a tenant or landowner were acquired or relocated, the Bureau of Right of Way of the Kansas Department of Transportation was contacted for guidance as to the proper procedures.

A: Number of tracts with relocation:

B: Were buildings, structures, or	other improvements involved in this project?
YES 🔄 NO 🗌	

4. If the new R/W or permanent easement acquired for the Project is adjacent to, along, or abutting KDOT highway R/W, copies of the deeds and plan sheets showing the applicable R/W tracts shall be submitted to KDOT Bureau of Local Projects.

Was new R/W or permanent easement acquired adjacent to, along, or abutting KDOT highway R/W?

YES NO

- 5. Records will be maintained on file for at least three (3) years after the acquiring agency has been notified that the Project has been accepted by the Kansas Department of Transportation.
- 6. Any companies owning or operating utilities or other facilities within the limits of the Project, have been contacted and the facilities have been relocated, or arrangements made and/or plan notes indicating the moving, removing, or adjusting of such facilities, as may be necessary, upon due notification of such companies by the City (D.O.T. Form No. 1304, attached hereto, lists such companies with headquarters' addresses and gives the status of relocations).
- 7. That City funds will be available for the matching of State and/or Federal funds to finance construction work on this Project.

BE IT RESOLVED: The City makes the above certifications and the Secretary can proceed in accordance with the provisions of the agreement above referenced for the Project.

Adopted this _____ day of _____, <u>20</u>___, at ____, Kansas.

APPROVED:

City Engineer/Road Supervisor

Chairperson City Commission

City Clerk

Form O - Administrative Settlement

PROJECT NUMBER:	
COUNTY:	
CITY:	
TRACT NUMBER:	
OWNER(S) NAME:	
APPRAISED VALUE:	
TOTAL SETTLEMENT AMOUNT APPROVED):
SETTLEMENT RECOMMENDED BY:	
APPRAISER:	
REVIEWING APPRAISER:	
AQUISTION AGENT:	
JUSTIFICATION FOR SETTLEMENT:	
NEGOTIATOR	APPROVED BY

Form P - 90-Day Guarantee

DATE: _____

PROJECT NO.: _____

COUNTY: _____

TRACT NO.:	JOB NO.:	
------------	----------	--

OWNER: _____

TENANT: _____

Dear ____:

The City or County has initiated negotiations for the acquisition of all or a portion of the property you occupy.

The purpose of this notice is to inform you that you will not be required to move ANY SOONER than 90 days from the date of this notice. In other words, this notice is your GUARANTEE of a minimum of 90 days.

Once the City or County has acquired the right to legal possession, either by purchase or condemnation, you will be given a written 30-day notice to vacate which will specify the exact date that you must vacate the property. In no event will the 30-day notice require you to move before 90 days from the date of this notice.

RELOCATION ASSISTANCE AGENT

Form Q - 30-DAY NOTICE TO VACATE

DATE:	
PROJECT NO.:	
COUNTY:	
TRACT NO.:	JOB NO.:
OWNER:	
TENANT:	

Dear ____:

The City/County has acquired the property located at ______.

The purpose of this letter is to advise you that the State of Kansas must now obtain possession of the above stated property. It will be necessary for the above stated property to be vacated on or before.

If you cannot comply with the above-stated vacation date, please contact me at

------•

You are also advised that if you are eligible for a payment for moving your personal property, you will not receive such payment until all personal property has been removed. You are also responsible for the removal of trash.

The Relocating Agency will not be responsible for any personal property remaining on the above-stated property after the above-stated date.

We hope that this will result in a minimum of inconvenience to you, but it is a necessary step to allow the State to proceed with the required preliminary work.

Sincerely,

Relocation Assistance Agent

Appendix C - Appeal Procedure

The appeal procedure of an agency action as defined in The Act of Judicial Review and Civil Enforcement of Agency Actions, K.S.A. 77-601 et seq. is described as follows:

(a) A person, business, or other entity that believes that the LPA has failed to properly determine the amount of or eligibility for assistance or a payment or improperly selected or administered a contract subject to these procedures, may have the determination reviewed by the LPA.

(b) To be considered, the request for review shall be submitted in writing within 60 days after written notification of the determination is sent or delivered to the person. The request should be sent to a designated LPA authority.

A request will be deemed to have been submitted in a timely manner if it is postmarked or delivered within the time period required. Such a request for review will be considered by the LPA regardless of form.

Persons requesting a review will be asked to send or include a statement outlining the items or issues in dispute and the amounts being claimed. The LPA will encourage the person to attach appropriate documentation to substantiate the claim. The LPA will review the claim and try to resolve it prior to the undertaking of the formal review process.

(c) Upon receipt of the written statement, the LPA will appoint a hearing examiner. The hearing examiner reviewing the claim shall:

- 1. Not have been directly involved in the matters being appealed;
- 2. Become familiar with the statutes and regulations involved, and review the LPA's records that relate to the matters being appealed.

The hearing examiner will schedule a meeting with the appellant and LPA to consider the claim. Usually the hearing examiner sets up the meeting and notifies the appellant and the LPA. An attempt will be made to schedule the hearing (or meeting) on a date, at a time, and in a place, that is convenient to the appellant. The hearing examiner will notify the appellant in writing when and where the hearing will be held.

Appendix C - Appeal Procedure (continued)

Prior to the meeting, LPA may attempt to resolve all or part of the claim. If a resolution is made, it will be approved by the appellant in writing. If the entire matter is resolved, the meeting and remaining provisions in this section are not necessary.

During the hearing, both appellant and LPA will be given full and equal opportunity to be heard. Both parties may present oral and written information on an informal basis without regard to rules of evidence, may object to information presented, and may question those presenting information.

The intent of this process is that the appellant need not be represented by legal counsel. However, the person has the right to be represented, but solely at the person's expense.

(d) The LPA will permit the appellant to inspect and copy all materials pertinent to the claim, except materials that are by law confidential and are not open to public inspection. The LPA may impose reasonable conditions on the appellant's right to inspect and copy, consistent with applicable laws.

(e) The hearing examiner will take reasonable notes of oral information presented at the meeting. Promptly after receipt of all information submitted by the appellant, the hearing examiner shall prepare a decision.

- 1. In deciding an appeal, all pertinent justification and other material submitted by the appellant and all other available information needed to ensure a fair and full review shall be considered. The hearing examiner will prepare a written summary of the information it considered, including a listing of the documents received, for inclusion in the appeal file. The summary will be considered to be an internal document.
- 2. The decision will award to the appellant all the benefits and payments for which the person is found to be eligible.
- 3. The decision will report the rationale underlying the decision, show appropriate calculations, and cite these action(s) of the law or regulations that support the determination.

(f) The decision will be reported to the LPA. The hearing examiner will promptly notify the appellant in writing. A copy of this form will be provided to the appellant. The hearing examiner will also notify the appellant of his or her right to seek judicial review.

Appendix C - Appeal Procedure (continued)

(g) All communications related to the claim may be sent by ordinary mail.

(h) Appeal payments, if any, will be reported and accepted by the LPA.

(i) All records related to the claim will be retained by LPA for three years after the final payment is made for project right of way.

(j) If any part of a claim is denied or if LPA refuses to consider a claim, the displacee will be promptly notified in writing or the denial and the reason for it. The notice will also inform the displacee of the procedure that can be used to appeal the determination.

Appendix D

Kansas Statutes

• 26-518

Chapter 26.--EMINENT DOMAIN Article 5.--PROCEDURE ACT

26-518. Acquisition of real property; duties of condemning authority. Whenever federal funding is not involved, and real property is acquired by any condemning authority through negotiation in advance of a condemnation action or through a condemnation action, and which acquisition will result in the displacement of any person, the condemning authority shall:

(a) Provide the displaced person, as defined in the federal uniform relocation assistance and real property acquisition policies act of 1970, fair and reasonable relocation payments and assistance to or for displaced persons.

(b) Fair and reasonable relocation payments and assistance to or for displaced persons as provided under sections 202, 203 and 204 of the federal uniform relocation assistance and real property acquisition policies act of 1970, and amendments thereto, shall be deemed fair and reasonable relocation payments and assistance pursuant to this section.

(c) Nothing in this section shall preclude the voluntary negotiation of fair and reasonable relocation payments and assistance between the displaced person and condemning authority. If such negotiations lead to agreement between the displaced person and the condemning authority, that agreement shall be deemed fair and reasonable.

History: L. 2003, ch. 106, § 4; July 1.

• 26-501

Chapter 26.--EMINENT DOMAIN

Article 5.--PROCEDURE ACT

26-501. Eminent domain procedure; venue.

(a) The procedure for exercising eminent domain as set forth in K.S.A. 26-501 to 26-516, inclusive, shall be followed in all proceedings.

(b) The proceedings shall be brought by filing a verified petition in the district court of the county in which the real estate is situated, except if it be an entire tract situated in two (2) or more counties, the proceedings may be brought in any county in which any tract or parts thereof is situated.

History: L. 1963, ch. 234, § 1; Jan. 1, 1964.

• 26-502

Chapter 26.--EMINENT DOMAIN Article 5.--PROCEDURE ACT

26-502. Contents of petition. A petition shall include allegations of (1) the authority for and the purpose of the taking; (2) a description of each lot, parcel or tract of land and the nature of the interest to be taken; (3) insofar as their interests are to be taken (a) the name of any owner and all lienholders of record, and (b) the name of any party in possession. Such petition shall be verified by affidavit. Upon the filing of such petition the court by order shall fix the time when the same will be taken up. No defect in form which does not impair substantial rights of the parties shall invalidate any proceeding.

History: L. 1963, ch. 234, § 2; Jan. 1, 1964.

• 26-503

Chapter 26.--EMINENT DOMAIN Article 5.--PROCEDURE ACT

26-503. Eminent domain procedure; notice. The plaintiff shall cause to be published once in a newspaper of general circulation in the county where the lands are situated a notice of the proceeding at least nine (9) days in advance of the date fixed by the court for consideration of the petition and appointment of appraisers, and shall at least seven (7) days before such date mail to each interested party as named in K.S.A. 26-502 and whose address is known or can with reasonable diligence be ascertained a copy of such publication notice and petition insofar as it relates to his interest. No defect in any notice or in the service thereof shall invalidate any proceedings.

History: L. 1963, ch. 234, § 3; L. 1969, ch. 195, § 1; July 1.

• 26-504

Chapter 26.--EMINENT DOMAIN

Article 5.--PROCEDURE ACT

26-504. Same; findings; order appointing appraisers; duties; appeals to supreme court, when. If the judge to whom the proceeding has been assigned finds from the petition: (1) The plaintiff has the power of eminent domain; and (2) the taking is necessary to the lawful corporate purposes of the plaintiff, the judge shall entertain suggestions from any party in interest relating to the appointment of appraisers and the judge shall enter an order appointing three disinterested residents of the county in which the petition is filed, at least two of the three of whom shall have experience in the valuation of real estate, to view and appraise the value of the lots and parcels of land found to be necessary, and to determine the damages and compensation to the interested parties resulting from the taking. Such order shall also fix the time for the filing of the appraisers' report at a time not later than 45 days after the entry of such order except for good cause shown, the court may extend the time for filing by a subsequent order. The granting of an order determining that the plaintiff has the power of eminent domain and that the taking is necessary to the lawful corporate purposes of the plaintiff shall not be considered a final order for the purpose of appeal to the supreme court, but an order denying the petition shall be considered such a final order.

Appeals to the supreme court may be taken from any final order under the provisions of this act. Such appeals shall be prosecuted in like manner as other appeals and shall take precedence over other cases, except cases of a like character and other cases in which preference is granted by statute.

History: L. 1963, ch. 234, § 4; L. 1999, ch. 111, § 1; L. 2004, ch. 110, § 6; July

• 26-505

Chapter 26.--EMINENT DOMAIN

Article 5.--PROCEDURE ACT

26-505. Same; appraisers' oath, instructions, reports and notification to condemner; notice to interested persons by condemner; fees and expenses. After such appointment, the appraisers shall take an oath to faithfully discharge their duties as appraisers. The judge shall instruct the appraisers on matters including, but not limited to, the following: (1) That they are officers of the court and not representatives of the plaintiff or any other party, (2) that they are to receive their instructions only from the judge, (3) the nature of their duties and authority, (4) the basis, manner and measure of ascertaining the value of the land taken and damages resulting from such taking, (5) that, except for incidental contact for the purpose of verifying factual information relating to the subject real estate or to discuss scheduling matters, appraisers shall refrain from any ex parte meetings or discussions with representatives of the plaintiff or property owner without first advising the adverse party and providing such party with the opportunity to be present, and (6) that all written material provided to an appraiser or appraisers by a party shall be provided forthwith to the adverse party. The instructions shall be in writing. Upon the completion of their work the appraisers shall file the report in the office of the clerk of the district court and shall notify the condemner of such filing. The condemner, within three days after receiving such notice, shall mail a written notice of the filing of such report to every person who owns any interest in any of the property being taken, if the address of such person is known, and shall file in the office of the clerk of the district court an affidavit showing proof of the mailing of such notice. The fees and expenses of the appraisers shall be determined and allowed by the court.

History: L. 1963, ch. 234, § 5; L. 1968, ch. 138, § 1; L. 1999, ch. 111, § 2; Apr. 22

• 26-506 Chapter 26.--EMINENT DOMAIN Article 5.--PROCEDURE ACT

26-506. Same; view of lands by appraisers.

(a) Notice, time, place and manner of hearing. The appraisers shall, after they have been sworn, and instructed by the judge, make their appraisal and assessment of damages, by actual view of the lands to be taken and of the tracts of which they are a part, and by hearing of oral or written testimony from the plaintiff and each interested party as named in K.S.A. 26-502, and amendments thereto, appearing in person or by an attorney. Such testimony shall be given at a public hearing held in the county where the action is pending at a time and place fixed by the appraisers. Notice of the hearing shall be mailed at least 10 days in advance thereof to the plaintiff and to each party named in the petition if their address is known or can with reasonable diligence be ascertained, and by one publication in a newspaper of general circulation in each county where the lands are situated at least 10 days in advance of the hearing. In case of failure to meet on the day designated in the notice, the appraisers may meet on the following day without further notice. In case of failure to meet on either of such days, a new notice shall be required. A hearing begun pursuant to proper notice may be continued or adjourned from day to day and from place to place until the hearing with respect to all properties involved in the action has been concluded.

(b) Form of notice. The notice of hearing shall be in substantially the following form: In the District Court of _____ County, Kansas.

_____ Plaintiff, vs. _____ Defendant,

Notice is hereby given that the undersigned appraisers appointed by the court, will, in accordance with the provisions of K.S.A. 26-501 et seq., and amendments thereto, hold a public hearing on all matters pertaining to their appraisal of compensation and the assessment of damages for the taking of the lands or interests therein sought to be taken by the plaintiff in the above entitled matter covering the following described lands (description of lands). Such hearing will commence at ________ o'clock __M. on the ______ day of _______, (year)____ at ______, or on the following day without further notice, and may be continued thereafter from day to day or place to place until the same is concluded with respect to all properties involved in the action. Any party may appear in person or by an attorney and may present either oral or written testimony by the landowner or other witnesses at such hearing.

You are further notified that the court has set the _____ day of _____, (year)__, for the filing of the awards of these appraisers with the clerk of the court, and any party dissatisfied with the award may appeal therefrom as by law permitted within 30 days from the day of filing.

_____ Appraisers.

History: L. 1963, ch. 234, § 6; L. 2003, ch. 106, § 1; July 1.

• 26-507

Chapter 26.--EMINENT DOMAIN Article 5.--PROCEDURE ACT

26-507. Same; payment of award and vesting of rights; abandonment.

(a) Payment of award; vesting of rights. If the plaintiff desires to continue with the proceeding as to particular tracts it shall, within thirty (30) days from the time the appraisers' report is filed pay to the clerk of the district court the amount of the appraisers' award as to those particular tracts and court costs accrued to date, including appraisers' fees. Such payment shall be without prejudice to plaintiff's right to appeal from the appraisers' award. Upon such payment being made the title, easement or interest appropriated in the land condemned shall thereupon immediately vest in the plaintiff, and it shall be entitled to the immediate possession of the land to the extent necessary for the purpose for which taken and consistent with the title, easement or interest condemned. The plaintiff shall be entitled to all the remedies provided by law for the securing of such possession.

(b) Abandonment. If the plaintiff does not make the payment prescribed in subsection (a) hereof for any of the tracts described in the petition, within thirty (30) days, from the time the appraisers' report is filed, the condemnation is abandoned as to those tracts, and judgment for costs, including the appraisers' fees together with judgment in favor of the defendant for his reasonable expenses incurred in defense of the action, shall be entered against the plaintiff. After such payment is made by the plaintiff to the clerk of the court, as provided in subsection (a) hereof, the proceedings as to those tracts for which payment has been made can only be abandoned by the mutual consent of the plaintiff and the parties interested in the award.

History: L. 1963, ch. 234, § 7; Jan. 1, 1964.

• 26-508

Chapter 26.--EMINENT DOMAIN

Article 5.--PROCEDURE ACT

26-508. Appeal from award; notice to parties affected. If the plaintiff, or any defendant, is dissatisfied with the award of the appraisers, such party, within 30 days after the filing of the appraisers' report, may appeal from the award by filing a written notice of appeal with the clerk of the district court and paying the docket fee of a new court action. In the event any parties shall perfect an appeal, copies of such notice of appeal shall be mailed to all parties affected by such appeal, within three days after the date of the perfection thereof. An appeal by the plaintiff or any defendant shall bring the issue of damages to all interests in the tract before the court for trial de novo. The appeal shall be docketed as a new civil action and tried as any other civil action. The only issue to be determined therein shall be the compensation required by K.S.A. 26-513, and amendments thereto.

History: L. 1963, ch. 234, § 8; L. 1968, ch. 138, § 2; L. 2003, ch. 106, § 2; July 1.

• 26-509

Chapter 26.--EMINENT DOMAIN Article 5.--PROCEDURE ACT

26-509. Same; assignment for trial on appeal; attorney fees, when. In an action on appeal the court shall assign the case for trial to a jury, or to a master in accordance with K.S.A. 60-253, or acts amendatory thereof or supplemental thereto. Whenever the plaintiff condemner shall appeal the award of court appointed appraisers, and the jury renders a verdict for the landowners in an amount greater than said appraisers' award, the court may allow as court costs an amount to be paid to the landowner's attorney as attorney fees.

History: L. 1963, ch. 234, § 9; L. 1969, ch. 196, § 1; L. 1972, ch. 148, § 1; July 1.

• 26-510

Chapter 26.--EMINENT DOMAIN Article 5.--PROCEDURE ACT

26-510. Appeal from award; notice; withdrawal of payment.

(a) The clerk of the district court shall notify the defendants within 15 days that the plaintiff has paid the amount of the appraisers' award pursuant to K.S.A. 26-507, and amendments thereto.

(b) The defendants may by order of the judge and without prejudice to their right of appeal withdraw the amount paid to the clerk of the court as their interests are determined by the appraisers' report.

History: L. 1963, ch. 234, § 10; L. 1989, ch. 112, § 1; July 1.

• 26-511

Chapter 26.--EMINENT DOMAIN

Article 5.--PROCEDURE ACT

26-511. Interest on final judgment.

(a) If the compensation finally awarded on appeal exceeds the amount of money paid to the clerk of the court pursuant to K.S.A. 26-507, the judge shall enter judgment against the plaintiff for the amount of the deficiency, with interest. If the compensation finally awarded on appeal is less than the amount paid to the clerk of the court pursuant to K.S.A. 26-507, the judge shall enter judgment in favor of the plaintiff for the return of the difference, with interest.

(b) If the money paid to the clerk of the court under K.S.A. 26-507 is paid before July 1, 1982, the judgment shall bear interest as follows:

(1) On and after the date of the payment to the clerk and before July 1, 1982, at the rate of 6% per annum; and

(2) on and after July 1, 1982, and until the date the judgment is paid, at the rate provided by K.S.A. 16-204 and amendments thereto.

(c) If the money paid to the clerk of the court under K.S.A. 26-507 is paid on or after July 1, 1982, the judgment shall bear interest, on and after the date of the payment to the clerk and until the date the judgment is paid, at the rate provided by K.S.A. 16-204 and amendments thereto.

History: L. 1963, ch. 234, § 11; L. 1982, ch. 88, § 2; July 1.

• 26-512

Chapter 26.--EMINENT DOMAIN

Article 5.--PROCEDURE ACT

26-512. Same; making surveys and location. The prospective condemner or its agents may enter upon the land and make examinations, surveys and maps thereof, and such entry shall constitute no cause of action in favor of the owners of the land, except for actual damages thereto. **History:** L. 1963, ch. 234, § 12; Jan. 1, 1964.

• 26-513

Chapter 26.--EMINENT DOMAIN Article 5.--PROCEDURE ACT

26-513. Same; compensation required for taking and damage; determination.

(a) Necessity. Private property shall not be taken or damaged for public use without just compensation.

(b) Taking entire tract. If the entire tract of land or interest in such land is taken, the measure of compensation is the fair market value of the property or interest at the time of the taking.

(c) Partial taking. If only a part of a tract of land or interest is taken, the compensation and measure of damages is the difference between the fair market value of the entire property or interest immediately before the taking, and the value of that portion of the tract or interest remaining immediately after the taking.

(d) Factors to be considered. In ascertaining the amount of compensation and damages, the following nonexclusive list of factors shall be considered if such factors are shown to exist. Such factors are not to be considered as separate items of damages, but are to be considered only as they affect the total compensation and damage under the provisions of subsections (b) and (c) of this section. Such factors are:

(1) The most advantageous use to which the property is reasonably adaptable.

(2) Access to the property remaining.

(3) Appearance of the property remaining, if appearance is an element of value in connection with any use for which the property is reasonably adaptable.

(4) Productivity, convenience, use to be made of the property taken, or use of the property remaining.

(5) View, ventilation and light, to the extent that they are beneficial attributes to the use of which the remaining property is devoted or to which it is reasonably adaptable.

(6) Severance or division of a tract, whether the severance is initial or is in aggravation of a previous severance; changes of grade and loss or impairment of access by means of underpass or overpass incidental to changing the character or design of an existing improvement being considered as in aggravation of a previous severance, if in connection with the taking of additional land and needed to make the change in the improvement.

(7) Loss of trees and shrubbery to the extent that they affect the value of the land taken, and to the extent that their loss impairs the value of the land remaining.

(8) Cost of new fences or loss of fences and the cost of replacing them with fences of like quality, to the extent that such loss affects the value of the property remaining.

(9) Destruction of a legal nonconforming use.

(10) Damage to property abutting on a right-of-way due to change of grade where accompanied by a taking of land.

(11) Proximity of new improvement to improvements remaining on condemnee's land.

(12) Loss of or damage to growing crops.

(13) That the property could be or had been adapted to a use which was profitably carried on.

(14) Cost of new drains or loss of drains and the cost of replacing them with drains of like quality, to the extent that such loss affects the value of the property remaining.

(15) Cost of new private roads or passageways or loss of private roads or passageways and the cost of replacing them with private roads or passageways of like quality, to the extent that such loss affects the value of the property remaining.

(e) Fair market value. "Fair market value" means the amount in terms of money that a wellinformed buyer is justified in paying and a well-informed seller is justified in accepting for property in an open and competitive market, assuming that the parties are acting without undue compulsion. The fair market value shall be determined by use of the comparable sales, cost or capitalization of income appraisal methods or any combination of such methods.

History: L. 1963, ch. 234, § 13; L. 1969, ch. 196, § 2; L. 1999, ch. 111, § 3; Apr. 22.

• 26-514

Chapter 26.--EMINENT DOMAIN

Article 5.--PROCEDURE ACT

26-514. Fixing of benefit districts and levying of special tax assessments no part of eminent domain procedure. In all cases where costs of the improvement are to be paid for, in whole or in part, by fixing benefit districts or by means of apportionment of benefits on all property benefited, the assessments shall be levied and collected as the statutes now authorize, or may hereafter

authorize the assessment, levy and collection of the expense of public improvements, but such special assessments shall not be any part of the condemnation proceedings.

History: L. 1963, ch. 234, § 14; Jan. 1, 1964.

• 26-515

Chapter 26.--EMINENT DOMAIN Article 5.--PROCEDURE ACT

26-515. Same; proceedings pending prior to effective date of this act; invalidity of part. All proceedings or actions under any power of eminent domain pending at the time of the effective date of this act shall be completed in conformity with the laws in effect prior to such date.

If any part or parts of this act shall be held unconstitutional, such unconstitutionality shall not affect the validity of the remaining parts of this act. The legislature hereby declares that it would have passed the remaining parts of this act if it had known that such part or parts thereof would be declared unconstitutional.

History: L. 1963, ch. 234, § 15; Jan. 1, 1964.

II. CFR TITLE 49 PART 24

7.0 <u>Status of Utilities</u>

7.1 Introduction

It may be necessary to relocate utilities that are located within project construction limits. Utilities include but are not limited to lines, facilities, and systems for producing, transmitting or distributing power, electricity, communications, cable TV, lighting, heat, gas, oil, crude products, water, steam, waste water, storm water not connected with highway drainage, and other similar commodities, including fire and police signal systems and street lighting and traffic control systems, which directly or indirectly serve the public.

7.2 <u>Schedule</u>

All necessary utilities should be relocated at least **four months** prior to the letting date of the project. BLP may delay the letting of any project that does not have the necessary utilities relocated **four months** prior to the scheduled project letting date. The LPA will submit the <u>Status of Utilities (KDOT Form 1304)</u> to the PM before any project plans will be processed for PS&E.

7.3 <u>Responsibilities</u>

7.3.1 <u>LPA</u>

The LPA is responsible for facilitating the relocation of all utilities for a project. The LPA will coordinate as necessary with the utility owners to make certain that all utilities requiring relocation for the project are relocated before the project is let. Under certain circumstances the utilities requiring relocation may need to be relocated concurrent with construction. In any case, it is the LPA's responsibility to provide the <u>Status of Utilities (KDOT Form 1304)</u> to the PM before the project plans are processed for PS&E. BLP may delay the letting or cancel the project if the Form 1304 has not been received **four months** prior to the scheduled project letting date. Each revision of the LPA-submitted Form 1304 will be dated and signed by the LPA or their representative.

It is important that the Contractor has accurate information available regarding the status of utilities before bidding on the project. If, for any reason before letting, the status of utilities changes from the original Form 1304 submission, it is the LPA's responsibility to submit a revised Form 1304 to BLP. Any valid additional claims by the Contractor due to delay because of utility relocation issues will be charged to the LPA and will not be funded as a participating item.

7.3.2 <u>KDOT</u>

BLP is responsible for processing the LPA-furnished Form 1304 and transmitting this information to KDOT BOCM in preparation for the project letting (for KDOT-Administered projects). The BOCM includes this information in the project bidding proposal.

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8.0 Construction Engineering (CE) Consultant Selection and Agreement

8.1 Introduction

The LPA may engage consultants to perform CE and related services for a federal-aid and/or state-aid funded project. The LPA must follow the selection and contracting provisions of the 23 CFR 172. This regulation requires engineering and design contracts utilizing federal/state funds be awarded based on fair and open competitive negotiations, demonstrated competence and professional qualifications, known as Qualification Based Selection (QBS).

It is necessary for any personnel providing inspection, sampling or testing duties to be CIT certified in the required classifications. (CIT Certified inspection is not required for Surface Preservation (SP) category projects in the CCLIP Program.) The LPA will make their consultant selection from the approved list of consultants furnished by KDOT.

8.2 Inspection Options

The LPA has two options for the inspection of federal or state funded projects:

- 1. Inspect the project utilizing certified LPA staff. (To supplement staff, option 2.b. must be used.)
- 2. Request the services of a certified consultant.
 - a. Select the consultant from the approved As-Needed list of consultants furnished by KDOT.
 - b. Utilize the QBS process. Refer to *Section 3.0 PE Consultant Selection and Agreement* in this Manual for the QBS process. BLP will send the packets outlining the necessary requirements and procedures to the LPA **six months** prior to the scheduled letting.

8.3 Funding Options

The LPA may fund the CE inspection entirely with LPA funds (non-participating) or utilize matching funds (participating).

8.3.1 Participating

BLP will provide the LPA with working days or a calendar completion date to be used to submit a proposal and estimate to BLP for approval. Refer to *Section 3.0 PE Consultant Selection and Agreement* in this Manual for agreement procedures.

Supplemental agreements are changes to the original agreement. They may be issued at the request of any party and are subject to approval by the same methods as the original agreement. A CE supplemental agreement may be requested either during construction or after the construction is complete. Any supplemental request will be submitted to the KDOT field office with written documentation and a detailed estimate that provides justification for extra compensation or time extension. Approval by the local KDOT construction office and the LPA is necessary before the request is reviewed and approved by the KDOT District Engineer and the KDOT Bureau of Construction and Materials. Once the supplemental agreement request has the necessary approvals, BLP will create the supplemental agreement. BLP will distribute the supplemental agreement to the necessary parties for signatures. Originals are to be returned to KDOT for further processing.

8.3.1.1 LPA Inspection

The LPA will submit a CE proposal, a detailed estimate, and a list of KDOT certified inspectors to BLP. If the LPA needs additional inspection staff, the LPA may enter into a contract with a qualified sub-consultant. The LPA will pay the sub-consultant directly. To receive reimbursement, the sub-consultant must have been selected utilizing the QBS selection process. The sub-consultant must be a part of the CE proposal and estimate approved by BLP.

8.3.1.2 Consultant Inspection

Consultants on the As-Needed list have been selected using the QBS process.

Refer to Section 3.0 PE Consultant Selection and Agreement in this Manual for details on the QBS process.

The working days or a calendar completion date are provided to the Consultant by the LPA. The Consultant provides the LPA with a proposal, detailed estimate of costs, and a list of KDOT certified inspectors. A Consultant may enter into an independent agreement with a sub-consultant if additional certified inspection staff is necessary. The LPA will forward the negotiated proposal and original detailed estimate to BLP for review. On approval, BLP will initiate a three-party agreement. Refer to *Section 3.0 PE Consultant Selection and Agreement* in this Manual for agreement procedures.

8.3.2 <u>Non-Participating</u>

The LPA has the option not to use Federal or State-Aid in the inspection. This option allows the LPA to utilize LPA forces and/or consultant services without utilizing the QBS process. If consultant services are used, a KDOT qualified consultant must be selected due to the use of federal or state-aid in the construction. All inspector and inspection guidelines need to be followed as if the CE is a participating item. BLP will execute a contract with the LPA and Consultant. The LPA will pay the Consultant directly with no reimbursement coming from KDOT.

8.4 <u>Conflict of Interest</u>

Federal and state laws and regulations provide for the protection of the public's interest against fraud, waste, and abuse of government resources. All consulting engineering firms employed on projects administered by BLP are expected to exercise judgment and perform their duties in a way that supports the applicable policies and practices of the State of Kansas and the Local Public Authority. Any situation that would compromise the ability of the consulting firm or its employee(s) ability to act on behalf of KDOT or the LPA is considered a Conflict of Interest.

Conduct or situations that are conflicts of interest include, but are not limited to, the following:

- A consulting firm or its employee has, either directly or indirectly, a financial or personal interest in a contractor, subcontractor, or material supplier connected to the project.
- A consulting firm or its employee unduly influencing decisions on scope changes, design changes, construction revisions, contract change orders and other related issues to minimize or ignore design errors or to positively benefit the firm.

All consultant contracts for Construction Engineering Inspection Services for work to be paid partially or wholly with federal or state dollars will include the following language under the Obligations of the Consultant:

- 1) The Consultant warrants they have no public or private interest, and shall not acquire directly or indirectly any such interest, which would conflict in any manner with the performance of the work under this Agreement. Specifically, the Consultant is prohibited from performing contractor construction staking or any other work that is the construction Contractor's responsibility on this Project.
- 2) The Consultant will not, without written permission from KDOT, engage the services of any person(s) in the employment of KDOT for any work required by the terms of this Agreement.

In addition, every contract for engineering services will include a Code of Conduct Certification, known as Special Attachment No. 2, signed by the Consultant, Deputy Secretary of Transportation and State Transportation Engineer, and the LPA. By signing this form, the three parties certify that there was no undue influence of any party regarding executing or carrying out the agreement.

The Consultant is responsible to identify and disclose any actual or potential Conflict of Interest on a project.

In addition to these requirements, the consulting firm and its employees shall comply with all other professional responsibilities, code of ethics, or law applicable to services being provided.

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9.0 Plans, Specifications and Estimates (PS&E), KDOT-Administered

9.1 Introduction

The designer will submit Preliminary Plans and documentation to the BLP. The BLP Plan File Manager will transmit the plans to the BOCM to approve the Plans, Specifications and Estimates (PS&E), and supporting documents for the advertising, letting and awarding of the project. BOCM determines the number of working days and prepares the Official Engineer's Estimate and Contract Bid Documents.

The PS&E Submittal should be made **four months prior to the programmed letting date**. Failure to meet the submittal schedule could cause the letting to be delayed and/or the project funding could be jeopardized.

9.2 PS&E Requirements

9.2.1 PS&E Plans

After Final Check corrections have been made, the LPA will submit Preliminary (PS&E) Plans to BLP for estimating by BOCM. All markups/comments which have been made by BLP on previous submittals are made to improve the plans by suggesting or requiring changes. These do not override design decisions made by the designer or the owner. The designer's or owner's choice to disregard any BLP markups shall be discussed with the BLP PM and approved prior to PS&E submittal.

9.2.2 Engineer's Estimate

The LPA shall submit the Engineer's Estimate. It should be as detailed as possible showing estimated quantities and unit prices.

9.2.3 Permits

The permits required for the project will be acquired by the LPA or their representative. The <u>List of Permits</u> and <u>Status of Same (KDOT Form 1307)</u> shall be filled out and signed according to <u>Section 4.6</u> of this Manual. The LPA shall submit the signed Form 1307 and copies of all permits.

9.2.4 Right of way certification

Refer to *Section 6.0 Right of Way* in this Manual for Right of Way requirements. The LPA shall submit the signed <u>Right of Way Clearance for Federal Aid Projects (KDOT Form 1306)</u>.

9.2.5 Utility adjustment certification

Refer to *Section 7.0 Status of Utilities* in this Manual for utility relocation information. The LPA shall submit the completed <u>Status of Utilities (KDOT Form 1304)</u>.

9.2.6 Final Plans submitted to BLP

9.2.6.1 Plan requirements

Final Plans will be submitted for letting after PS&E review comments are addressed. The designer will submit an electronic copy in accordance with BLP E-Plans Requirements. The professional seal and signature of the engineer in charge of the design and designated local official must be affixed to the original title sheet at this time. A scanned copy of the title sheet with the original signatures and seal shall be submitted as part of the electronic copy.

Refer to the <u>Specifications for Electronic Plans Submittal</u> for procedures on how to submit plans to BLP.

9.2.6.2 <u>Required Special Provisions/Conditions</u>

The designer shall coordinate with the PM to provide any necessary special provisions/conditions.

9.2.6.3 Work Schedule Requirements

The LPA shall coordinate with the PM to determine work schedule requirements. Any special provisions needed to address schedule constraints should be discussed at this time.

9.2.7 Official Engineer's Estimate

During the PS&E stage, the plans will be reviewed by BOCM and they will prepare the Official Engineer's Estimate.

9.2.8 Working Days

Working days required to construct the project are determined by BOCM. This information is provided to BLP and the LPA to assist in the development of the Construction Engineering (CE) proposal and estimate. Early and late start dates are determined by the KDOT District Office and the LPA.

9.2.9 Estimate of LPA Funds Letter

Notification is sent to the LPA notifying them of the estimated dollar amount of matching funds required.

10.0 Letting and Award, KDOT-Administered

10.1 Introduction

Once the PS&E process is complete and final plans have been submitted to BLP, the project will be advertised by KDOT for letting.

10.2 Advertisement/Addendums

Advertisement occurs **one month** prior to the scheduled letting for the project. Information will be available to prospective bidders and subcontractors. That information, known as the Proposal Form, includes the Project Electronic Bidding System (EBS) file on either KDOT's or Bid Express' website (which includes DOT Form 202, required contract provisions and the unit prices list), special provision list, project special provisions, special provisions, standard specifications, plans, exploratory work documents, any additional contract information, and any addendums or amendments the Secretary provides for the Project.

On occasion, the LPA, the designer, or KDOT will receive questions from prospective bidders during the advertisement period. All questions from Contractors should be directed to KDOT BOCM through the <u>Bid</u> <u>Express</u> website. This ensures that all questions and answers are provided to all contractors. If it is determined that information in the Proposal Form is unclear, consideration will be given to revising documents (including plans) and/or issuing an addendum to the Proposal Form so that all bidders are made aware of the situation. The LPA/Designer will be responsible for providing answers to these questions and providing revised quantities and/or documents upon the request of BLP.

If an error or omission in the Proposal Form is discovered during the advertisement period that is determined by BLP to be significant enough to warrant addressing prior to letting, an addendum will be issued to all plan holders by BOCM. Information to support the addendum, including plan details, bid items, quantities, specifications and reports, shall be submitted to the project manager by the LPA upon request. The PM will transmit the information to KDOT BOCM for inclusion by addendum.

10.3 Letting

KDOT lettings are generally conducted on the **3rd Wednesday of each month at 1:30 PM**. A schedule of future lettings can be found at: <u>http://www.ksdot.org/burconsmain/letdates.asp</u>

Lettings are broadcast with live audio on the day of the letting and may be listened to at: <u>http://www.ksdot.org/burconsmain/audio.asp</u>

All bids opened and read on the day of the letting are considered preliminary and must be checked and verified by BOCM. As-read bids may be viewed after the letting at: https://kdotapp.ksdot.org/AllProjectDetail/default.aspx

10.4 Commitment of Funds

Once BLP has been notified of the results of the as-read bids, BLP will contact the LPA to request a verbal indication as to whether the bid will be accepted.

If the bid is not accepted, the LPA is required to indicate in writing (electronic mail is acceptable) that the bid was rejected. Upon receipt of that notification from the LPA, BLP will notify BOCM who in turn will notify bidders that the bid was rejected.

If the LPA verbally indicates that the bid will be accepted, then BLP will generate the Authority to Award Contract Commitment of City/County Funds packet. This packet contains a cover letter, the Authority to Award Commitment of City/County Funds resolution, an invoice that details the LPA's required amount of matching funds based on the actual bids and construction inspection (CE) contract, and a copy of the As Read bids detailing the number of bids, the bidders and corresponding bids. The packet, or copy by electronic mail, should be received by the LPA as soon as possible after the letting.

10.5 Award of Contract

The lowest responsible and responsive bidder is obligated to the bid for a period of **45 days**. This period can be extended at the request of the LPA (through BOCM), but the Contractor is not obligated to agree to an extension.

The Authority to Award resolution shall be executed by the LPA as quickly as possible and returned to BLP. Once BLP receives the executed Authority to Award resolution, or electronic copy of resolution, BLP will notify BOCM to initiate the process to execute the construction contract. Hard copies of the resolution returned to BLP will be forwarded to BFS for record keeping.

If the LPA fails to submit the Authority to Award letter back to BLP, the bid will be considered rejected and the Contractor will be notified.

The LPA is required to submit the local matching funds to BLP within **50 days** of the letting date unless other arrangements have been made in advance.

10.6 Contract Execution and Notice to Proceed

After the executed contract has been returned from the Contractor and delivered to the local KDOT Construction office by BOCM, a Pre-Construction meeting will be held (usually at the administering KDOT construction office). It is advisable for the LPA and designer to contact the BLP PM or KDOT Area Engineer after the award of contract for details of the pre-construction conference. Typically, the date KDOT issues the Notice to Proceed is determined at the Pre-Construction meeting.

11.0 Construction & Oversight Responsibilities (KDOT Let)

11.1 Introduction

After project letting, control for construction oversight is provided by the KDOT Area office. BLP encourages the LPA to keep in contact with the Area office for regular project updates. This section provides guidance for contract and design issues that may be encountered.

11.2 Construction

These projects are KDOT administered, therefore the LPA will not coordinate or direct any work. Any work performed by the Contractor without KDOT Area Engineer approval may be non-participating and result in additional costs to the LPA. Any work performed by the Contractor, outside the scope of the project, will not be permitted as a part of the project or construction contract. The LPA should reference the KDOT Construction Manual for project construction related items. The manual is available through the <u>KDOT</u> <u>Construction & Materials website</u>.

11.2.1 Change Orders

Conditions in the field will not necessarily be those anticipated when the plans and proposal were prepared. Omissions, errors, and plan changes may require correction before the project is finaled.

Situations will arise when the quantities indicated in the plans are considerably more or less than those provided in the contract. The Project Inspector shall check the applicable Specifications to determine how changes in contract quantities are handled. See *Section 104 "Scope of Work"* of the Standard Specifications for the change order process.

All changes in unit prices and additional items of work (whether participating or non-participating) must be made valid through a Change Order to the Contract.

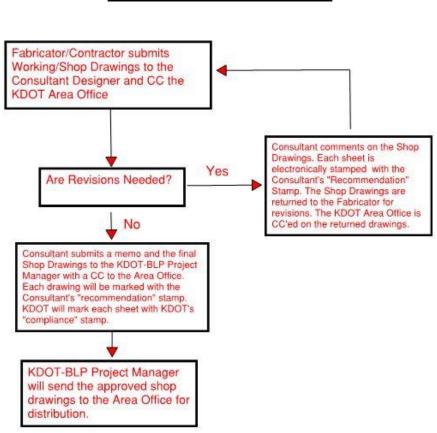
Generation and approval of all change orders associated with the project is the responsibility of the KDOT Area office. LPAs are encouraged to request information regarding change orders prior to KDOT approval. Refer to the <u>KDOT Construction Manual</u> for additional information.

11.3 Working/Shop Drawings

Refer to Section 101 of the Standard Specifications for State Road & Bridge Construction for the definition of Working/Shop Drawings.

11.3.1 <u>Road</u>

Refer to the KDOT Road Design Manual (available on the <u>KART website</u>) for specific instructions regarding working/shop drawings. The Contractor/Fabricator shall submit electronic working/shop drawings to the Design Consultant for review. The KDOT Area Office will be CC'ed on this submittal. Recommended (final) working/shop drawing submittals shall include distribution email addresses for the Contractor and fabricator. Working/Shop drawings will be stamped by the designer as recommended for approval (each sheet will be stamped), with or without corrections and forwarded to BLP. BLP will process and distribute recommended shop drawings. Any intermediate submittals will not be submitted to BLP.



BLP Shop Drawing Procedure

11.3.2 Bridge

Any drawings for structures need to be submitted to the PM following procedures outlined in the Road section above.

The following information is a guide summarizing requirements for the post letting review of various fabrication, and field plan document requirements. The Specification, General Notes, Engineering Seal requirements and risk categories which are to be considered are grouped together to ease locating the various pieces of information. The Design Engineer must consider some or all or these, based on the type of project, when estimating the Construction Services portion of the Contract.

Some of the information within this section is familiar to the designer, such as shop plan, falsework plan and shoring plan review. Other information has been implemented by KDOT to provide oversight during the construction process. It is KDOT's intent to assign higher risk operations a more stringent review and oversight process. As such, the highest level of risk occurs when a project has construction operations over either railroad or vehicular traffic. The designer is encouraged to review the specifications associated with the type or work begin performed, and choose the appropriate General Note thus indicating to the Contractor the level of risk and therefore, oversight which can be expected.

Plan Review Summary Information									
Information Plan Type		# of Plan Copies	Lead Time Required	Specs to Review	Note Numbers to Review		P.E. Stamp Required	Plan Review	Recommend Approval
Shop Details	Consultant	*	Project Specific	101 106 705 707 709 716 719 721 722 735 1609	5200 6000 6010 6110 6111 6113 6120 6130	6200 6210 6410 6420 6600 6620 6625 7410	No	No	**
	In House	*	Project Specific				No	Yes	*
Shoring	Standard	*	3 weeks	701 702	30 35 300 1030		Yes	Yes	Yes
	Railroad		6 weeks						
Falsework	Category (1)	*	4 weeks	105 708 710	4100 4105 4115 4120	4130 4140 7800 7810	Yes	Yes	Yes
	Category (2)	*	4 weeks	105 708 710	4100 4106 4110 4120	4130 4140 7800 7820	Yes	District Policy	
Erection	Category A	(1)		105 708 710 SP07- 07004	3000 3010 5210 6420 6520	6521 6522 6523 8700	No	No	No
	Category B	*	4 weeks				Yes	Yes	Yes
	Category C	*	4 weeks				Yes	Yes	Yes
Demolition	Category A	(1)		105 708 710 SP07- 07014	3000 3010 5210 6420 6520	6521 8700 9001 9002 9003	No	No	No
	Category B	*	4 weeks				No	No	No
	Category C	*	4 weeks				Yes	Yes	Yes
Pour Sequence	Discuss Possible Changes at Precon Meeting	*	2 Weeks	105 708 SP07- 0711	4140 4200 5100 5110 7000 7210 7215	7300 7301 7310 7311 7312 7320 7330 7330 7400	No	Yes	Yes

Based on project complexity, the specifications and the notes listed in this document may only be the base of what is required.

* Electronic submittal conforming to 105.10 (b) of the Standard Sepcifications for State Road and Bridge Construction

* * General Compliance Stamp

11.4 <u>Revised Plans</u>

Revised plans, if required, are to follow procedures in *Section 2.7.3* of the KDOT Road Design Manual available on the <u>KART website</u>. The KDOT Construction Office and/or BLP will determine when revised plans are necessary. The Contractor, KDOT Area Office, BLP and LPA should be involved in all plan changes. Revised sheets shall be submitted electronically by the designer to BLP.

11.5 Project Acceptance and Closeout

The KDOT Area Office will perform final acceptance and generate all forms required for closing out project documentation after project construction is completed.

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12.0 Force Account Procedures

12.1 Introduction

A Federally-Funded Force Account project is defined as a project where "the direct performance of highway construction work is completed by a county or a city, using their labor, equipment, materials, and supplies under their direct control." (23 CFR Part 635.203) In essence, the Local Public Authority (LPA) becomes the contractor for the project.

12.2 Programming/Eligibility

Competitive bidding is a requirement of federal funding when a state DOT or LPA performs highway work, unless it is determined that another method is more cost effective or there is an emergency. The term "cost effective" means the entity performing the work is exercising an efficient use of labor, equipment, materials and supplies to assure the lowest overall cost. An emergency may exist when repair work is necessary or when a major element or segment of the highway system has failed. In emergency situations, competitive bidding may be impossible or impractical because immediate action is necessary to 1) minimize the extent of the damage, 2) protect the remaining facilities, or 3) restore essential travel. For these instances, the force account method may be warranted.

To determine cost effectiveness of a force account project, the following requirements have been established by KDOT:

- The LPA must be qualified and capable of performing the work in an efficient, effective, and expeditious manner and must have access to the specific items of equipment needed to complete the work. The KDOT District Office shall review the LPA's past experience in performing similar work.
- 2. The LPA must provide an estimate of the work to be completed. The LPA is required to prepare plans for review by BLP in the normal project development manner. Preliminary plans will be submitted by BLP to BOCM for preparation of the official engineer's estimate. To proceed as a force account project, the LPA's estimated project cost is required to be **less than 80 percent** of the estimate made by BOCM.
- 3. The LPA must demonstrate by a recent audit that its record keeping system is adequate by showing that the pay items can be adequately determined and paid for by force account.
- 4. Payments to the LPA for work performed shall be by the force account method, which requires that no profit accrue to the LPA performing the work. Estimates of cost shall exclude any consideration of mobilization, depreciation, profit, or overhead. A complete estimate, including calculations, a minimum of two suppliers' quotes for each purchased pay item and specialized equipment rental, the LPA's cost estimate, and the required calendar days to complete the work shall be submitted by the LPA for consideration by BLP.

12.3 Types of Project/Requirements

BLP shall administer and permit LPAs to develop plans to use FHWA STP and other funds for certain locally constructed projects. The LPA should request their intent to utilize the Force Account method of construction when the project is programmed; however, the official determination will not be made until plans are developed and final estimates prepared. Project plans will be developed as if the project were being let to bids. Project development will include listing the project on the STIP, NEPA clearances, right-of-way and utility clearances, required permits obtained, and plans and estimates provided. The difference in project development will occur at PS&E stage. The BOCM will determine the official estimate. The LPA's estimate must be **less than 80 percent** of the official estimate to continue as a force account project. A Force Account Project Development Checklist (*Figure 12.1*) is located at the end of this *Section*.

12.4 Agreement/Notice to Proceed

An agreement for federal-aid construction shall be prepared by BLP for execution by the LPA and KDOT. The full execution of the agreement by the Assistant Secretary and State Transportation Engineer is the official approval of the plans, specifications, and estimate documents.

Federal funds must be approved and obligated by FHWA prior to any purchase or charge to the force account agreement. Without this obligation, the LPA will not receive federal reimbursement for the work performed.

The responsibility for construction inspection will be determined by separate agreement between KDOT and the LPA. The County will not be able to utilize county forces to do both construction and construction inspection.

The LPA shall be notified to contact the KDOT District Office to obtain the Notice to Proceed. The District Engineer shall assign a KDOT representative to monitor and coordinate all project related activity for compliance with applicable federal and state requirements on services provided and construction performed and to provide for inspection and testing as required by applicable LPA construction engineering contracts.

12.5 Project Closeout/Reimbursements

Reimbursements on force account projects can be made intermittently through the KDOT representative monitoring the construction. Only actual costs, up to the project maximum, will be reimbursed. Pay Estimates are issued by the KDOT Area office with copies sent to the PM.

12.5.1 Reimbursable Costs

Any request for reimbursement from the LPA should include an itemized breakdown of the amount requested.

- a) Labor and fringe benefits will be charged to the project at the LPA's actual cost. If an employee is paid monthly, their hourly rate will be computed by dividing their salary by the hours per month they work. Costs of general administration and other overhead are not allowable unless employees are assigned for specific identifiable periods of time to perform project-related activities in the same manner as other operating personnel. Prior written approval from KDOT must be obtained for these costs to be allowable.
- **b)** Allowed equipment rates shall be as approved by BLP.
- c) Materials will be estimated at the price of low quote and will be paid for at actual invoiced costs. Copies of invoices shall be furnished to KDOT. Materials such as temporary traffic signing, barricades, field offices and labs, test equipment, hand tools, engineering equipment and other such items used from or to be returned to the County's inventory or stock, are not allowable costs, except by prior written approval.

12.5.2 Project Completion Documentation

Upon project completion, KDOT's construction representative will conduct a final review of the project to verify that the LPA has fulfilled the required aspects of the project and a final Notice of Acceptance will be issued. The LPA will furnish a certified itemized statement (electronic) of the actual cost of the project. The statement is submitted to KDOT's construction representative, and then forwarded to the PM and the Contract Audit Section in the Bureau of Fiscal Services. The statement should be detailed as follows:

- Labor: the total actual hours, rates and extension for each classification documented by project-specific time sheets.
- Equipment: the total actual hours, KDOT rates and extension for each approved unit of machinery and equipment; or, if occasional, specialized equipment (prior written approval required) is rented, actual invoice costs.
- Materials: the actual quantities of materials, prices and extensions as invoiced by the suppliers.
- Transportation: the actual costs for the delivery of materials, if any.
- Miscellaneous: the cost of property damage, liability and worker's compensation insurance premiums, unemployment insurance contributions, social security, health and retirement payments, and/or other eligible direct project-related costs. The certified, itemized statements shall be accompanied and supported by invoices for all materials used, specialized equipment rented, and transportation charges.

Figure 12.1

FORCE ACCOUNT PROJECT DEVELOPMENT CHECKLIST

Project: _____

- □ 883 (Project Authorization) with Force Account as letting method and FHWA concurrence, as necessary
- □ Project is included in State Transportation Improvement Program (STIP)
- □ Prepare Project Agreement between KDOT and the LPA
- □ Final Environmental Clearance complete
- Design Summary complete and approved by FHWA, as necessary
- □ Plans prepared
- Utility Relocations coordinated, and ROW acquired (Forms 1304 & 1306)
- □ Permits obtained and submitted (Form 1307)
- □ LPA qualified to do the work (letter)
- District Office reviewed LPA's experience
- □ LPA provide an estimate of work
- □ BOCM Estimators determine the engineers estimate
- □ LPA's estimate is 80% of the Estimator's estimate
- □ LPA demonstrated that their record keeping system is adequate (letter)
- □ Construction Agreement for Force Account is complete (Information to be included in the agreement: working days and special provisions from BOCM, early/late start dates and approved estimate of work from LPA.)
- □ Construction Inspection arrangements are complete
- □ Federal Funds are obligated
- □ BLP distributed the plans
- □ Notice to Proceed issued by KDOT District
- □ Project closeout complete

13.0 Emergency Relief (ER) Procedures

13.1 Introduction

The ER program is intended to provide funding to help with repairs on Federal-aid eligible routes necessary due to a state and nationally recognized natural disaster. The funding is available for federal aid routes that are not classified as local roads or rural minor collectors. In general, there needs to be a **minimum of \$700,000** estimated in total damage for the entire geographical area affected by the disaster for routes to be eligible for this program.

The <u>FHWA Emergency Relief Manual</u> (found at: <u>http://www.fhwa.dot.gov/reports/erm/er.pdf</u>) is the main reference document for the ER program. Typically, Federal Emergency Management Agency (FEMA) funding is not eligible for most Federal-Aid eligible roadway infrastructure. Some items may be eligible such as traffic control or debris removal. The FEMA guidance can be found at: <u>https://www.fema.gov/pdf/government/grant/pa/pdigest08.pdf</u>.

13.2 Initial Procedures

KDOT and the LPAs are empowered to begin emergency repairs immediately to restore essential traffic service and to prevent further damage to Federal-aid highway facilities. Properly documented costs will later be reimbursed based on availability of funding after the FHWA Division Administrator makes a finding that the disaster is eligible for ER funds.

13.2.1 Declaration Process

To be considered for ER funding, a disaster declaration/proclamation is required. This is done by either a major disaster declaration by the President under the Stafford Act (42 U.S.C. 5121 et seq.), or the Governor of the State issuing an emergency or disaster proclamation and FHWA concurring on the declaration.

Only those areas of the State included in the Governor's proclamation or the President's declaration may be considered for ER funding.

Link to the State's Disaster Declaration page: <u>http://www.kansastag.gov/kdem.asp?PageID=434</u>

KDOT BLP will send a notification memo out to affected LPAs asking for damage information on any eligible routes. BLP Project Managers will coordinate with LPAs to develop a list of possible sites to be funded.

13.2.2 Preliminary Assessments

When KDOT learns of a disaster event, efforts will be made to estimate the amount of damage that has occurred. To be eligible to utilize the ER program, \$700,000 in wide-spread damages to the state and local federal-aid road system need to be estimated. Individual locations require a minimum of \$5,000 repair/replace costs to be eligible. BLP will contact the LPAs that have been affected to compile an estimate for applying for the funds.

13.3 Formal Assessment

When it becomes apparent that the \$700,000 threshold is going to be met, KDOT and FHWA will visit the affected sites to assess damages.

The LPA should:

- 1. Review the Federal ER Manual
- 2. Maintain records for any work performed at affected sites and include a separate file for each location which includes:
 - i. timesheets
 - ii. equipment sheets
 - iii. material receipts
 - iv. pictures
- 3. Suggest LPA create spreadsheet with daily individual expenses separated by site

At the site, a formal estimate of damages will be made by completing the <u>Detailed Damage Inspection</u> <u>Report (DDIR, FHWA Form 1547)</u>. It is best to complete the entire form before leaving the site.

13.3.1 Funding Determination

13.3.1.1 Emergency Repairs

The intent of emergency repairs is to permit the immediate performance of work to restore essential traffic that cannot wait for a finding of eligibility and programming of a project. Emergency repair work should be accomplished in a manner that will reduce additional work required for permanent repairs. Emergency repairs are eligible for reimbursement at **100% of costs for the first 180 days after the disaster**.

13.3.1.2 Permanent Repairs

The ER program provides for the repair and restoration of highway facilities to pre-disaster conditions. Restoration in kind is therefore the predominant type of repair accomplished with ER funds. Any additional protective features or changes to the function or character from that of the pre-disaster facility are generally not eligible for ER funding unless justified based on economy of construction, prevention of future recurring damage, current design criteria, or technical feasibility. Permanent restoration work is not eligible if performed prior to authorization by the FHWA, unless it is determined to be more economical or practical to perform such work as an associated part of the emergency repairs. Permanent repairs are reimbursed 80% by the FHWA. Permanent restoration work not performed in conjunction with Emergency Repairs will be administered as a Federal Aid Highway Project.

13.3.2 Debris Removal

Disaster-related debris removal that is eligible for FEMA funding is not eligible for ER funds.

13.3.2.1 Heavy Maintenance

Heavy maintenance operations are not eligible for reimbursement. Heavy maintenance is usually performed by highway agencies to repair damage normally expected from seasonal and occasionally unusual natural conditions or occurrences. It includes work at a site required as a direct result of a disaster that can reasonably be accommodated by KDOT or the LPA's maintenance, emergency, or contingency program. Examples include work necessary to repair minor damage due to eroded shoulders, filled ditches and culverts, pavement settlement, mud and debris deposits, slope sloughing, and slip-outs in cut or fill slopes.

It is not the intent of the ER program to relieve an agency of its maintenance responsibility simply because a storm of unusual character and extent causes serious damage to roads and to public and private property.

13.4 Project Generation

13.4.1 Project Programming

BLP will use the FHWA <u>Detailed Damage Inspection Report Form</u> to program projects for sites approved for funding.

13.4.2 Agreements

KDOT will generate agreements for reimbursement of expenses according to the FHWA <u>Detailed Damage</u> <u>Inspection Report Form</u>. The agreements will be sent out to the LPA for signature and are then to be returned to BLP for the appropriate KDOT signatures and routing.

13.4.3 Build Contracts in CMS (Program Unit)

- 1. Note that 100% of expenses to open a road to traffic are eligible for reimbursement for the first 180 days after a disaster.
- 2. Expenses for emergency repairs after 180 days and permanent repairs are eligible for reimbursement at 80% of the expenses.

13.5 Project Finalization

13.5.1 Construction Site Visits

KDOT will visit the project sites as required by construction oversight procedures for KDOT-let projects. KDOT will visit the project sites a after the work has been performed for Force-account method project to verify that the work performed was in accordance with the FHWA <u>Detailed Damage Inspection Report</u>.

13.5.2 Audit – Force Account Method

An audit of the claims submitted by the LPA will be performed to check compliance with the FHWA regulations. Employee hours, equipment logs, and material sheets are compared with pictures, work performed, and the project estimate.

13.5.3 Payments

KDOT will make appropriate payments for ER work after proper documentation has been received and reviewed.

13.5.4 Final Acceptance

KDOT will submit a completed Final Acceptance of Federal-Aid Project (KDOT Form 299) to the KDOT Bureau of Fiscal Services when final payment is complete.

14.0 Traffic Engineering Assistance Program (TEAP)

14.1 Introduction

The TEAP program provides funding for traffic safety studies and traffic engineering assistance at no cost to the LPA. On-call consultants are hired by KDOT for three-year cycles to provide traffic engineering assistance to the LPAs. TEAP duties are then assigned to the on-call consultants based on area of expertise, familiarity with the area, or present work load.

14.2 Application & Study Selection Process

The TEAP annual cycle coincides with the Federal Fiscal Year (FFY). There is no formal ranking system in place, but fundamental safety considerations are a priority. Other considerations include the expected cost of the study, geographical location, and the number of studies that have been performed for the LPA recently. A <u>TEAP Application Form</u> can be found at the KDOT Local Projects web page.

As the studies are selected, the TEAP Administrator assigns the study to one of the TEAP consultants. The Consultant will review the application and discuss with the LPA the scope and process for conducting the study and provide a work order to BLP for approval. BLP will provide an approved work order to the Consultant.

14.3 Reports

The Consultant will provide a draft report for review. BLP will distribute the draft to other KDOT offices for their review as appropriate. After the review, comments on the draft will be returned to the Consultant for their incorporation into the final report. The consultant will distribute the final report to the LPA, BLP, and KDOT Area Engineer. BLP will distribute copies to FHWA, Traffic Engineering, and the KDOT library.

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15.0 LPA-Administered Procedures

15.1 Introduction

15.1.1 Purpose

KDOT, in cooperation with the FHWA, has developed a program through which local units of government may administer their own state and federal funded projects with oversight from KDOT.

Under this program, the LPA will certify that it will follow the LPA-Administered Procedures identified in this Section. The purpose of this section of the Manual is to outline the responsibilities of BLP and the LPA for federal-aid and/or state-aid projects that are administered by the LPA with oversight by BLP.

MAP-21 has identified all principle arterials as being a part of the NHS. For additional procedures that involve projects with principle arterials, see *Section* 15.3.2.2.11 below for more information.

15.1.2 Compliance Requirements

BLP will determine, by review of plans and other project documents, whether the requirements of the program have been met.

Certain minimum criteria have been established for the LPA to be approved to administer state and federal funded projects. These criteria are intended to provide verification that projects will be developed in accordance with all applicable laws, regulations, criteria, and accepted engineering practices. The following are the minimum criteria for certification and recertification:

- 1. LPA must have a full-time, publicly employed, licensed professional engineer in responsible charge.
- 2. LPA must have a full-time professional staff to administer projects.
- 3. BLP approval of all locally developed design criteria manuals and specifications.
- 4. Review by the LPA of this section of the Manual including all appendices.
- 5. Meet with BLP staff and discuss procedures and responsibilities.
- 6. Develop procedures for project development including planning, design, letting, and contract administration. These procedures shall be submitted to BLP for approval every **three years** to maintain their certification. All subsequent changes to the LPA's procedures shall be submitted to BLP immediately for approval.

15.1.3 KDOT Responsibilities

KDOT has oversight of the projects administered under this program. In cooperation with the FHWA, KDOT has determined this oversight will include the following:

- Determine that the LPA is suitably equipped and organized to discharge the duties of the <u>Code of</u> <u>Federal Regulations, Title 23 CFR Part 771</u>.
- 2. Review of LPA's design and construction policies, manuals, standards, and specifications.
- 3. Confirm that adequate acceptance, independent assurance sampling and testing, and manufacturers' materials certifications are incorporated in the LPA's materials process.
- 4. Develop and approve the Project Authorization (KDOT Form 883).
- 5. Authorize the LPA to proceed with the project.
- 6. Provide environmental oversight and coordinate with resource agencies.
- 7. Participate in project field checks.
- 8. Review and concur in PS&E.
- 9. Request authorization of federal funds.
- 10. Obligate federal funds for the project.
- 11. Issue an Authority to Administer the project (the LPA may proceed to Advertise the project for a minimum of 30-days).
- 12. Concur in award of the construction contract.
- 13. Review LPA Approved Sub-Contractors form.
- 14. Confirm all Contractors have an EEO policy on file with the Office of Contract Compliance.
- 15. Attend the Pre-Construction conference.
- 16. Create a contract in CMS for tracking of project costs and for reimbursement documentation.
- 17. Process LPA invoices in CMS for payment.
- 18. Track DBE participation monthly.
- 19. Determine funding participation in change orders. This includes concurrence in/approval of all change orders prior to the Contractor beginning the work.
- 20. Assist the LPA during construction with issues involving materials testing, inspection, and construction.
- 21. BLP will provide project closeout documents to KDOT Bureau of Fiscal Services including all changes from the original contract.
- 22. Participate in the final inspection of the project.

23. Confirm compliance with non-<u>Title 23 CFR Part 771</u> laws and regulations, i.e., Davis-Bacon, NEPA, Relocation Assistance Act, Buy America, Debarment, etc.

15.1.4 LPA Responsibilities

- Include project on applicable transportation plan. This must be complete prior to submitting <u>Request for Construction Project (KDOT Form 1302)</u>. For more information, see Section 2.0 Programming in this Manual.
- 2. Submit a request to develop the project under the approved procedures.
- 3. Develop a project schedule (City Administered Project Schedule) and cost estimate.
- 4. Execute the project agreement through BLP and proceed with project development.
- 5. Submit Field Check review package in accordance with the <u>E-plans submittal instructions</u>.
- 6. Conduct Field Check meeting and provide written meeting minutes to PM.
- 7. Submit Final Check review package in accordance with the <u>E-plans submittal instructions</u>.
- 8. Submit PS&E review package in accordance with the <u>E-plans submittal instructions</u> (including required contract specifications for Federal-aid projects.)
- 9. Advertise project (minimum 30-day).
- 10. Award construction contract.
- 11. Submit signed contracts and Letting Summary Documents along with Bid Tabs and PIL organized by work type in Excel format to be used by KDOT Bureau of Fiscal Services.
- 12. Fill out LPA Approved Sub-Contractors Form and submit to BLP.
- 13. Invite PM to the pre-construction meeting.
- 14. Provide PM with half-size set of construction plans.
- 15. Send PM a copy of the Notice to Proceed (NTP) document.
- 16. Submit **monthly** reimbursement requests to PM.
- 17. Submit change orders with necessary documentation including determination of participating and non-participating items to PM.
- 18. Review materials certifications.
- 19. Provide PM with the Construction Summary Documents, including the <u>Final Paid Items List (FPIL)</u> and the Notice of Acceptance.

15.2 Administration

Federal-aid fund categories and fiscal and audit responsibilities are discussed in *Section 2.0 Programming* in this Manual.

15.3 Procedures

15.3.1 Procedures Outline

Normal phases of project development will include Initiation; Scoping and Scheduling; Preliminary Design; Final Design; and Construction. Each phase involves activities and events needed to complete the project while verifying to KDOT compliance with applicable State Laws and Regulations as well as the <u>Code of</u> <u>Federal Regulations, Title 23 CFR, Part 771</u> and applicable Non-Title 23 CFR, Part 771 federal requirements. Activities listed are common to the various types and scopes of projects that are developed under federal aid non-full oversight procedures. Activities are designated by a number, and instructions are provided for the completion of each. Forms listed in the Activities instructions may be used, or the LPA may develop, with KDOT's approval, its own forms for submittal to KDOT to accomplish the verification.

15.3.2 Project Development Procedures for Locally Administered Projects

15.3.2.1 Initiation, Scoping and Scheduling Phase

15.3.2.1.1 LPA Project Identification – Primary Responsibility - LPA

For more information, see Section 2.0 Programming in this Manual.

15.3.2.1.2 Public Involvement – Primary Responsibility – LPA

The LPA is responsible for a public involvement process that is commensurate to the scope, complexity and potential of environmental impact of the proposed project. Public involvement should begin at the earliest stages of project development and continue throughout the project development process. It should be done in accordance with KDOT's <u>Sharing the Future: Public Involvement in the Kansas Transportation</u> <u>System</u>. The level of public involvement will be dependent upon the complexity of the project, potential for significant social or environmental impacts, and amount of controversy generated. Less complex projects involving little or no environmental impact may involve only a public informational meeting. More complex projects which have a high potential for environmental impact will need early and continuous public participation during project development and extensive documentation in accordance with <u>Code of Federal</u> <u>Regulations, Title 23 CFR, Part 771</u>. Documentation in these cases may be in the form of either an Environmental Impact Statement (EIS) (Class I) or an Environmental Assessment (EA) (Class III). The public involvement process flow charts included in KDOT's <u>Sharing the Future: Public Involvement in the Kansas</u> <u>Transportation System</u> provide the process used to categorize projects along with the sequence of events that need to be completed for each classification in order to comply with the federal requirements.

15.3.2.1.3 Request for Construction Project – Primary Responsibility - LPA

Once approved in the TIP, the LPA shall submit the <u>Request for Construction Project (KDOT Form 1302)</u> along with a copy of the approved TIP page showing the approved project. The LPA shall also provide a project schedule. (See <u>LPA Administered Project Schedule</u> in the *Forms and Documents* area of the BLP <u>LPA</u> <u>Administered Projects</u> webpage for an example.) Once this information is received by BLP, the project shall be programmed. After review, the BLP shall generate the Project Authorization (KDOT Form 883) and create the City/State Agreement.

For more information, see *Section 2.0 Programming* in this Manual.

15.3.2.1.4 Environmental Process – Primary Responsibility – BLP

When the project is authorized and the Project Authorization (KDOT Form 883) is executed, the KDOT Bureau of Right of Way, Environmental Services Section (ESS) will perform initial reviews and make initial contacts with the environmental regulatory agencies to ascertain the potential for environmental impacts. For more information, see *Section 4.0 Environmental* in this Manual.

15.3.2.2 Preliminary Design

15.3.2.2.1 Consultant Selection Process – Primary Responsibility – LPA

For information, see Section 3.0 PE Consultant Selection and Agreement and Section 8.0 CE Consultant Selection and Agreement in this Manual.

15.3.2.2.2 Consultant Selection Process Certification – Primary Responsibility – LPA

When federal funds are used in the preliminary engineering, the LPA will provide KDOT a certification that appropriate steps have been completed and that the process complied with all applicable regulations. Any work done prior to obligation of federal funds will be non-participating.

For more information, see Section 3.0 PE Consultant Selection and Agreement and Section 8.0 CE Consultant Selection and Agreement in this Manual.

15.3.2.2.3 Field Surveys - Primary Responsibility – LPA

The LPA is responsible for the acquisition of all survey and geotechnical data that is necessary for the development of the plans. Data gathering techniques and procedures will be commensurate with the complexity of the project and will be in accordance with State statutes and accepted survey practices.

15.3.2.2.4 Design Exception Request – Primary Responsibility – LPA

For information, see *Section 5.0 Plan Development* in this Manual.

15.3.2.2.5 Field Check Plans Preparation and Submittal – Primary Responsibility – LPA

The development of Field Check plans by the LPA shall be in accordance with recognized prevailing design criteria which are provided in *Section 5.0 Plan Development, Appendix A*. The LPA may request use of local criteria if they are consistent with these criteria/guidelines. The LPA administering the project is responsible for the completeness and accuracy of the plans. KDOT's <u>Design Manual</u>, Volume 1 (Part A and B), Road Section, Section 2.3, FIELD CHECK PLANS is the guide for plan preparation.

The LPA shall provide electronic Field Check plans and project cost estimate, per the instructions on submitting <u>E-Plans</u>, to BLP for KDOT distribution, review and processing.

15.3.2.2.6 Field Check Plans Review - Primary Responsibility – BLP

BLP will distribute the Field Check plans for review within KDOT and external agencies, as applicable.

15.3.2.2.7 Field Check Meeting and Report - Primary Responsibility – LPA - Coordination with BLP

The LPA will schedule the Field Check meeting time and location in coordination with BLP, Consultant and all other necessary parties. The LPA will conduct and take minutes of the meeting. The Consultant or LPA will provide sets of plans for use at the meeting. BLP will review comments and will discuss any necessary actions with LPA and Consultant. After the meeting, the Consultant or the LPA will distribute meeting minutes and provide BLP with a response to the issues identified/discussed in the meeting. When BLP receives the meeting minutes and issues response, BLP will generate a Field Check Report and provide to the LPA, Consultant, and all other necessary parties.

During the site review/field check meeting it should be determined if the proposed project will have a potential impact on rail facilities. If it appears that work will be near or on railroad right-of-way, the LPA will coordinate with the railroad to determine the need for flagging, liability insurance, agreements and a possible diagnostic review.

15.3.2.2.8 Environmental Process Continuation - Primary Responsibility –LPA

For information, see Section 4.0 Environmental in this Manual.

15.3.2.2.9 Public Involvement Process Continuation - Primary Responsibility – LPA

Although the public is involved in the early stages of project development for the more complex projects, additional public input may be needed in the early stages of preliminary design so that public opinion can be reflected in final design. Informational meetings may be needed at this stage along with environmental investigations to confirm the Environmental Classification shown on the Project Authorization (KDOT Form 883) and/or to provide input for use in the appropriate environmental documents.

15.3.2.2.10 Public Interest Finding – Primary Responsibility - LPA

If the LPA requests to use a proprietary product, the LPA shall submit a <u>Proprietary Product Certification</u> <u>Form</u> (PPC) or a Public Information Finding (PIF) to BLP explaining the need for the proprietary product and why it is in the public's best interest to allow it. The BLP shall review the request and approve or deny the PPC or the PIF.

15.3.2.2.11 NHS Approval Procedure – Primary Responsibility - LPA

For projects on principle arterials, the LPA must request special approval to administer federally funded projects on the NHS. This request needs to document the reasons for the request and be submitted to BLP for approval.

15.3.2.3 Final Design

15.3.2.3.1 Design Exception Approval – Primary Responsibility – BLP

BLP will respond to the LPA approving or denying any design exception request. Requests made prior to Field Check will be addressed as a part of the Field Check discussions. When the request is made after or because of Field Check discussion, the approval may be made prior to Final Check plan submittal if sufficient plan information or other details are provided to support the request. Approved items will be reflected in the Design Summary Document.

For more information, see *Section 5.0 Plan Development* in this Manual.

15.3.2.3.2 ROW Activities Initiated - Primary Responsibility – LPA

For information, see *Section 6.0 Right of Way* in this Manual.

15.3.2.3.3 Utility Adjustments Initiated – Primary Responsibility – LPA

Coordination with affected utility companies may begin at any time in the project development process. Early coordination is recommended to minimize negative impacts on the project schedule.

15.3.2.3.4 Environmental Review Process – Primary Responsibility – KDOT

All environmental reviews and clearances (such as noise, air quality, farmland, archaeological, historical, wildlife, Section 4(f), etc.) will conform to applicable federal and state law. When the reviews are complete, and all agencies have submitted their comments, KDOT's Environmental Services Section will transmit a "Status of Project's Environmental Concerns – Final" memo to BLP. Once received by BLP, the PM will distribute to the LPA.

15.3.2.3.5 NEPA Documentation Completion – Primary Responsibility – LPA/BLP

For information, see Section 4.0 Environmental in this Manual.

15.3.2.3.6 ROW Acquisition Completion – Primary Responsibility – LPA – Coordination with BLP

<u>Right of Way Clearance for Federal Aid Projects (KDOT Form 1306)</u> must be completed and returned to BLP on all projects even if no rights of way are being acquired.

For more information, see *Section 6.0 Right of Way* in this Manual.

15.3.2.3.7 Utility Adjustments Completion – Primary Responsibility – LPA – Coordination with BLP

For information, see *Section 7.0 Status of Utilities* in this Manual.

15.3.2.3.8 Permits Obtained – Primary Responsibility – LPA

For information, see *Section 4.0 Environmental* in this Manual.

15.3.2.3.9 PS&E Package Submittal – Primary Responsibility – LPA

The LPA will submit to BLP all necessary documentation for the PS&E approval. As a minimum, this documentation will include completed plans, project specifications and bid documents, engineer's estimate of probable cost, <u>Status of Utilities (KDOT Form 1304)</u>, <u>Right of Way Clearance for Federal Aid Projects</u> (KDOT Form 1306) and <u>List of Permits and Status of Same (KDOT Form 1307)</u>. This shall all be submitted to the PM electronically via the <u>FTP site</u>.

PS&E documents shall be submitted a **minimum of 30 days** prior to the desired advertisement date.

15.3.2.3.10 PS&E Review – Primary Responsibility – BLP

Upon receipt of the PS&E package from the LPA, BLP will review the documents to confirm that the project complies with State and/or Federal requirements.

The estimate will be distributed by BLP to the Program Consultant in KDOT's Office of Contract Compliance to determine the DBE goal. Once the PM receives the DBE Goal, the LPA will be notified so that the DBE Goal may be updated in the project proposal.

The PM will review the LPA's documents to verify that all required specifications are included. Federal-aid projects have <u>Required Contract Specifications</u> that must be included.

Upon completion of the review, PS&E approval by the STE will be obtained to allow the LPA to advertise. The project must be advertised for a **minimum of 30 days** prior to the opening of bids.

15.3.2.3.11 Additive Work – Primary Responsibility – LPA – Coordination with BLP

The use of additive work bidding will require prior approval from the PM.

If the LPA chooses to include additive work bidding procedures, the LPA shall be required to prioritize the additions in order of consideration. Selection of the Contractor shall be based on the sum of the base bid plus the selected additive work items in order of consideration. If the LPA has any questions regarding the procedures for this, please contact the PM to discuss.

15.3.2.3.12 Obligation of Funds – Primary Responsibility – BLP/FHWA

After PS&E plans and documents have been approved by BLP, KDOT BPPM will request FHWA to obligate the project's federal funds.

After the funds have been obligated, the PM will submit the Authority to Administer the project for approval by the BLP Bureau Chief.

After the Authority to Administer has been approved, it will be submitted to the LPA via electronic memo (Authority to Bid) by email. The LPA shall advertise the project for **a minimum of 30 days**.

15.3.2.3.13 Contract Addenda – Primary Responsibility – LPA – Coordination with BLP

If it is necessary that changes must be made after a project is advertised, project addenda shall be provided to all potential bidders and shall be issued with sufficient time for contractors to prepare their bids. Copies of all addenda shall be submitted to BLP for review and to confirm that the previous PS&E approval continues to be valid after the changes are made. The LPA shall not let the project to bids until all applicable addenda have been approved by the BLP.

15.3.2.3.14 Construction Engineering Agreement – Primary Responsibility – LPA – Coordination with BLP

For information see *Section 8.0 CE Consultant Selection and Agreement* in this Manual.

15.3.2.3.15 Public Involvement Continuation – Primary Responsibility – LPA

The public involvement process should be continuous and provide input from interested parties throughout the project development.

15.3.2.4 <u>Letting</u>

STATEMENT OF POLICY

The Kansas Department of Transportation's <u>Construction Manual</u> (CM), <u>Standard Specifications for State</u> <u>Road and Bridge Construction</u> (Standard Spec), required contract provisions, and recurring special provisions have been approved by the Federal Highway Administration (FHWA) for use on highway and similar construction projects when Federal money is involved as a means to comply with Federal laws and regulations. Therefore, when projects sponsored by local units of government involve federal money, all letting, and construction activities shall be regulated by these documents. All activities contained therein are not listed below as procedures to follow since not all activities are applicable to LPA's projects; however, as foreseen and unforeseen situations arise during the course of a project that are not covered below, policies and procedures contained in the CM and Standard Spec shall be used to resolve the situation.

These procedures and regulations were written for KDOT personnel; however, since these projects involve federal monies and are being completed with oversight of KDOT, appropriate representatives of the local units of government should use the procedures and regulation as if they were written for their use.

Exception: The LPA can use their own specifications and procedures if they have been reviewed and approved by KDOT.

15.3.2.4.1 Letting Process -- Primary Responsibility –LPA

15.3.2.4.2 Project Schedule and Plans Distribution - Primary Responsibility – LPA

After PS&E approval, the LPA will confirm the project letting date and provide full, complete and accurate plans, specifications and special provisions for examination purposes by interested and qualified contractors. These will be made available **at least 30 days before** the scheduled letting date.

15.3.2.4.2.1 Advertisement - Primary Responsibility-LPA

After the date is set for receipt of proposals, the LPA will give notice of such letting to prospective bidders. The notice shall conform to the requirements set forth in KDOT's "Standard Specifications for State Road and Bridge Construction", <u>Section 102.1</u>.

15.3.2.4.3 Contractor Prequalification: Prime, Sub-Contracting, and EEO – Primary Responsibility – LPA

All prime contractors must be on <u>KDOT's list of pre-qualified contractors</u> as a prerequisite to submitting a responsive bid. (The LPA's proposal must include this requirement.) After award, the LPA will submit the BLP <u>LPA Sub-Contractor Approval Form</u> to the PM for review prior to BLP issuing the Notice to Proceed to the Contractor.

All contractors and sub-contractors working on any State/Federal-Aid project must have an EEO policy on file with the Office of Civil Rights Compliance. Each contractor and sub-contractor is responsible for submitting their company's <u>EEO policy</u> on their company letterhead, a <u>letter of appointment</u> of the company's EEO officer, and the <u>DOT 1049 CFR Form.</u> If a contractor or sub-contractor has 50 or more employees, an Affirmative Action Plan is also required. Please contact KDOTs Office of Civil Rights Compliance with any questions. (785.296.7940).

The PM will notify the LPA if a sub-contractor does not have a policy on file. The sub-contractor will not be allowed to work on the project until the Office of Civil Rights Compliance verifies they have a policy on file.

Below is a table of EEO and DBE documents that are required for Federally funded projects. The LPA is responsible for receiving, checking and submitting to BLP.

EEO and DBE Documentation

Document	Frequency	Who Retains
EEO Policy – prime & subs	Calendar Year	Office of Civil Rights Compliance
DBE Certification	At Contract Award Only 60% of DBE supplier value can be used 	DBEs and Office of Civil Rights Compliance
Wage Rate Interviews	One employee/company/quarter	LPA
Certified Payroll	Weekly (within 7 calendar days of pay)	Contractor and LPA
Bulletin Board	Details posters required for project	Contractor
Bulletin Board Check Sheet	Maintain during project	LPA
Form 239* Field Construction Administrator's Report	When Project is 20-30% complete	LPA and BLP
<u>Form 270</u> (or similar from LPA) DBE Payment Affidavit	End of Project	LPA, BLP and Office of Civil Rights Compliance
Form 294* Additional Classification Request Form	As needed for job classes not in contract	Contractor, LPA, BLP and BOCM
Form 1003 Federal-Aid Highway Construction Employment Data Summary	Monthly (contracts over \$500,000)	Contractor and BLP
Form 1008 Monthly DBE Payment Affidavit	Monthly - One per each DBE subcontractor (by the 5 th for preceding month)	BLP
Form 1010LP Certificate of Subcontractor Work and Payment	Monthly (within 15 calendar days after making subcontractor payment)	Contractor, LPA and BLP
Form 1014* Commercially Useful Function	One for Each DBE per project (when DBE's work is 1/3 to 1/2 complete)	LPA and BLP
Form 1391 (FHWA) Federal-Aid Highway Construction Contractors Annual EEO Report	Annually to Civil Rights Compliance (last full pay period of July)	Office of Civil Rights Compliance

*Request from the BLP PM

15.3.2.4.4 Contract Documents - Primary Responsibility- LPA

The LPA shall be responsible for the completion, execution and implementation of all contract documents, which may include, but are not limited to, proposals, notice to contractors, special provisions, bidding requirements and conditions (KDOT's "Standard Specifications for State Road and Bridge Construction",

<u>Section 102</u>), bid bond, and the proposal schedule. The <u>Required Contract Specifications</u> shall be included on all Federal-aid projects.

The following two (2) paragraphs **must be placed above the signature line in the bidding document**.

PARAGRAPH #1 (For projects WITH Federal funds)

REQUIRED CONTRACT PROVISIONS:

The current versions of the following Required Contract Provisions (I-IV) require the Contractor to furnish information. The Contractor shall complete and submit with its proposal these provisions. The City of ______ will reject proposals that fail to contain completed Required Contract Provisions I, II and III and may reject proposals that fail to contain completed Required Contract Provision IV.

Ι.	08-10-66 (LPA)	Certification – Non-collusion & History of Debarment
<i>II.</i>	04-26-90 (LPA)	Declaration – Limitations on Use of Federal Funds for Lobbying
<i>III.</i>	07-19-80 (LPA)	DBE Contract Goal
IV.	01-01-11 (LPA)	Tax Clearance Certificate

PARAGRAPH #1 (For projects with NO Federal funds)

REQUIRED CONTRACT PROVISIONS:

The current versions of the following Required Contract Provisions (I-IV) require the Contractor to furnish information. The Contractor shall complete and submit with its proposal these provisions. The City of will reject proposals that fail to contain completed Required Contract Provision I and may reject proposals that fail to contain completed Required Contract Provision IV.

Ι.	08-10-66 (LPA)	Certification – Non-collusion & History of Debarment
IV.	01-01-11 (LPA)	Tax Clearance Certificate

PARAGRAPH #2 (For ALL projects)

CERTIFICATION:

Note: <u>Davis-Bacon wage rates</u> used for a project shall be those in effect **no more than 10 days** prior to the letting. Per FHWA, "A contracting agency is responsible for incorporating the applicable wage rate determination into each federally-assisted contract entered into pursuant to competitive bidding

procedures. When notice of a change to a wage determination is published in the Federal Register 10 days or more before the opening of bids, the USDOL requires that the new wage determination be incorporated into the contract by amendment. $29 \text{ CFR1.6(c)(3)(i)}^{"}$.

Some LPA's may wish to utilize contract incentives/disincentives (liquidated damages) for either timely or untimely completion of part or all of the work for a specified period (hourly, working day, calendar day, or calendar completion date.

Should the LPA choose to use Contract Incentives/Disincentives, this shall be included in the preliminary contract documents submitted during PS&E. If the LPA has adopted the Kansas Department of Transportation Standard Specifications for Road and Bridge Construction (Current Version) and accompanying Special Provisions, the Incentive/Disincentives are outlined in Sections 108.7 and 108.8. If the LPA has their own Specifications, the incentive/disincentive language should be included in the Current Specification or in a Special Provision with the requirements for the incentive/disincentive defined for the prospective bidders.

15.3.2.4.4.1 Public Opening of Proposals – Primary Responsibility – LPA

The LPA shall be responsible for the letting place and schedule and for the notification of interested participation of the same. The LPA shall conduct the letting in accordance with state laws and regulations. Proposals shall be opened and read in public at the time and place indicated in the Notice to Contractors. This procedure shall follow instructions listed in <u>Sections 102.15-18</u> of KDOT's "Standard Specifications for State Road and Bridge Construction".

15.3.2.4.5 Letting Review and Authority to Award

15.3.2.4.5.1 Bid Analysis - Primary Responsibility – LPA/KDOT

The LPA will, after the proposals are opened and read, evaluate the bids to confirm that funds are being spent in the most effective manner, that there was good competition in the bidding, and the lowest practicable price for the project was received. The review will include a comparison of the bid prices with respect to the Engineer's Estimate and other factors that may include the following:

- Number of bids
- Distribution or range of the bids
- Identity and geographic location of the bidders
- Urgency of the project
- Unbalancing of the bids
- Current market conditions and workloads
- Comparison of bid prices with similar projects in recent lettings
- Justification for significant bid price differences
- Potential for savings if the project is re-advertised
- Other factors as warranted

As a part of this review, the LPA must review the bids for collusion. The Department of Justice, Antitrust Division has a <u>Red Flags of Collusion checklist</u> to help prevent and detect collusion.

Copies of the detailed bid tabulations will be submitted to KDOT for review by the BOCM.

15.3.2.4.5.2 Bid Approval - Primary Responsibility – LPA – Coordination with BLP

The proposals shall be considered by the LPA in accordance with <u>Section 103.1</u> of KDOT's "Standard Specifications for State Road and Bridge Construction". Once reviewed, the lowest responsible and responsive bidder should be approved. If any of the required certifications have not been signed by the Contractor, their bid will be considered non-responsive and will be rejected. In addition, the DBE goal for the project must be met for the bid to be considered responsive. The LPA shall submit to BLP its recommendation for award, detailed bids from all bidders, and copies of all required certifications for the apparent low bidder (Checklist for Authority to Award).

15.3.2.4.5.3 Concurrence in Award - Primary Responsibility - BLP

BLP will review the information submitted by the LPA and confirm that all requirements have been satisfactorily met. When it has been determined that all requirements are met, the LPA will submit "Authority to Award Contract" document for STE execution. The executed "Authority to Award Contract" document will then be sent to the LPA.

15.3.2.4.5.4 Award and Execution of Contract – Primary Responsibility - LPA

Upon notification of the "Authority to Award" from KDOT, the LPA shall award and execute a contract in accordance with <u>Section 103</u> of KDOT's "Standard Specifications for State Road and Bridge Construction", or the LPA's KDOT-approved procedures may be used.

Both a Hard Copy and an electronic copy of the fully executed contract with all required certifications will be submitted to the PM prior to issuing the Notice to Proceed. The electronic copy shall be in pdf form and all sections shall be bookmarked.

15.3.2.4.6 Letting Summary Document - Primary Responsibility – LPA

Upon completion of the Letting Phase, the LPA shall provide BLP with a "Letting Summary Document" that certifies the letting process has been completed and the contract has been awarded in accordance with the requirements of this document as well as Section 102, 103, and 104 of the KDOT "Standard Specifications for State Road and Bridge Construction". The "Letting Summary Document" shall be submitted to the PM prior to issuing the Notice to Proceed.

An example of the "Letting Summary Document" is included in *Appendix A* of this section. A breakdown of the project construction costs (Bid Item List) by work type (i.e., roadway, surfacing, bridges, traffic signals, and common items) and with non-participating items identified shall be submitted to BLP at this time.

15.3.2.4.7 Request for Project Exemption Certificate – Primary Responsibility LPA

After the "Authority to Award" has been issued by BLP, the LPA must complete a "REQUEST FOR PROJECT EXEMPTION CERTIFICATE (Department of Revenue Form PR-76)" available from KDOR at: <u>https://ksrevenue.org/pdf/pr76.pdf</u>

If the LPA has attained "agent" status through KDOR, they must submit a copy of the document granting them "agent" status and a copy of the Form PR-76 issued by the LPA to the Contractor. A publication containing more information about this form and the process can be found at:

https://www.ksrevenue.org/pdf/pub1520.pdf

or you may contact the Kansas Department of Revenue (KDOR) directly at the address or phone shown below:

The Office of Policy & Research Docking State Office Building Kansas Department of Revenue (KDOR) 915 SW Harrison Street, Room 230 Topeka, KS 66612-1588 Phone: (785)296-3081 FAX: (785)296-7928

After the LPA completes the form, they need to return it to the address stated above. KDOR will assign the LPA an Exemption Certificate Number specific to the project. A copy of the document from KDOR assigning the Exemption Certificate Number must be provided to BLP prior to issuing the "Notice to Proceed."

After the project is completed, the LPA shall complete the "State of Kansas Project Completion Certification" (KDOR Form PR-77) available from KDOR at:

https://www.ksrevenue.org/pdf/pr77.pdf

This certifies that all materials purchased by the Contractor were exempted from payment of sales tax. This form must be delivered to the LPA and kept on file for 5 years after project finalization.

15.3.2.5 Construction Phase

15.3.2.5.1 Pre-Construction Meeting – Primary Responsibility - LPA/KDOT

The LPA shall coordinate with the PM regarding the Pre-Construction Conference date and location.

15.3.2.5.2 Notice to Proceed - Primary Responsibility - LPA

Following the instructions in <u>Section 108.1</u> of KDOT's "Standard Specifications for State Road and Bridge Construction", the LPA shall provide a written notice to the Contractor to proceed with the contract work including, when applicable, the date for commencement of the contract time for performance. This notice shall be submitted to BLP electronically.

15.3.2.5.3 Contract Administration - Primary Responsibility - LPA - Coordination with KDOT

The LPA is responsible for implementing and controlling the work described and required in the project contract including requirements of the Construction Engineering agreement. Control of the work should follow instructions provided in Sections 2.07 through 2.13 of KDOT's "<u>Construction Manual</u>", current edition. Traffic is to be handled during construction in accordance with the plans and the current edition of FHWA's "<u>Manual on Uniform Traffic Control Devices</u>" (MUTCD). Monitoring shall be performed to confirm the Contractor's compliance with Davis-Bacon wage requirements, EEO, DBE, and other contractual requirements.

The LPA shall pay the Contractor and submit a voucher for reimbursement to BLP on a **monthly** basis using the <u>Payment Request Form (KDOT Form 1313</u>). Appropriate data shall be provided to justify the amount of reimbursement and non-participating amounts clearly noted, with a billing summary sheet. The voucher will be checked by BLP and processed for payment. A copy of the <u>Certificate of Subcontractor Work</u> <u>Payment (KDOT Form 1010LP)</u> and <u>Monthly DBE Payment Affidavit (KDOT Form 1008)</u> shall be included with the reimbursement requests.

The LPA shall maintain contact with BLP throughout the project. The LPA shall submit monthly construction progress reports to the PM. BLP will conduct audits of documentation, certifications and billing during the project construction. BLP shall be invited to all project progress meetings; given 24-hour notice for all paving operations, concrete or asphalt work; and be invited to the final inspection.

15.3.2.5.4 Change Orders - Primary Responsibility - LPA - Coordination with KDOT.

Often changes occur during construction of a project that requires adjusting the compensation paid to a Contractor. All changes must be within the scope and limits of the project. All change order requests must be submitted to the PM using the <u>Contract Change Order Form (KDOT Form 1314)</u> for review and approval **before the work is initiated**. KDOT will provide email concurrence on all changes within **3 business days**. If the LPA does not receive prior approval, the items on that change order may be deemed non-participating, as per the "Code of Federal Regulations", Title <u>23 CFR 635.120</u>. KDOT's role is to provide general administrative oversight and to determine the amount of federal participation.

Change orders will be submitted using the unit prices from the original bid tabs when possible. If unit prices for the work aren't included in the original paid items list, the LPA and Contractor will negotiate a price. The LPA will conduct a cost analysis and submit the proposal from the Contractor as backup documentation to BLP. If line items are deleted or zeroed out by change order, they will be listed at the bottom of the pay estimate, in the change order section, as negative amounts. Line items shall never be completely removed from the original bid tabs/paid items list. When changing an existing item, you must use the existing unit price.

Non-participating items shall be clearly marked on the original bid tabs, plans, pay estimates and change orders. Email correspondence regarding the prior approval and determination of federal participation of the change order items, between the LPA and KDOT, shall be submitted as backup documentation with change

orders. Once the determination of participation has been made, the items will be marked accordingly on the pay estimates.

The LPA will conduct a cost analysis of all changes to the contract included in the change order request. Per KDOT's "Standard Specifications for State Road and Bridge Construction", <u>Section 104.9a</u>, all direct and indirect costs associated with the Contract Change, including labor, materials, equipment, overhead, profit, impact costs and other costs for which the Contractor claims compensation is owed. Do not include prohibited costs as listed in Subsection 104.9c.

All changes must be listed on the <u>Final Paid Items List (FPIL</u>), and units and unit prices must be the same as on the Bid Item List. For example, if the bid item is 1 LS \$10,000, it can only be adjusted in \$10,000 increments.

15.3.2.5.5 Public Involvement Complete – Primary Responsibility – LPA

Public involvement is a continuous and ongoing process during project development and should continue through the construction phase. The LPA is responsible to implement measures, appropriate for the specific project, to keep the public informed of project activities and to respond to their input.

15.3.2.5.6 Materials Certification - Primary Responsibility - LPA

The LPA is responsible for materials certifications as documented in KDOT's "Construction Manual", <u>Section</u> <u>2.07</u>, and KDOT's "Standard Specifications for State Road and Bridge Construction", <u>Section 2600</u>. These certifications will verify the Contractor has furnished materials that meet specified requirements.

Materials sampling, testing procedures and materials certification requirements must be included in the LPA procedures manual and followed on each project. Materials testing personnel must be properly certified.

See KDOT's "Standard Specifications for State Road and Bridge Construction", <u>Section 106</u> for information on QC/QA or Verification testing.

Materials testing personnel performing materials tests on Federal-aid projects must be witnessed by BCM personnel. Mass witnessing events take place in each KDOT District on a yearly basis. Most consultants already participate. It is the LPA's responsibility to contact the local KDOT construction office to inquire about mass witnessing events.

15.3.2.5.7 Final Closeout - Primary Responsibility – LPA

Once the project is substantially complete, the LPA will coordinate with the Contractor, the Inspector, the Designer, and the PM to perform a walk-through of the project. Any corrective measures to be addressed by the Contractor will be noted and a schedule to complete the corrective work (if any) will be determined. Once the LPA is satisfied that the project is complete, they will begin the final closeout process for the project.

The LPA is responsible for creating and submitting the following documents to the PM:

- Notice of Acceptance. This document notifies the Contractor that the LPA has accepted the project and that the Contractor is relieved of their responsibility for maintenance of barricades, lights and watchmen, and will no longer be required to perform additional work or maintenance.
- **DBE Summary Report**. This document shows that the DBE goals were met.
- **Construction Summary Document**. This document certifies that all project activities (PE, CE, and Construction) have been completed in accordance with federal and state laws and regulations as well as KDOT's "Construction Manual" and/or the LPA's approved procedures manual. The document will include a final statement that the Contractor has provided appropriate materials certification for the project.
- Final Acceptance of Federal-Aid Project Constructed Under Exempt Oversight. This document states the LPA's acceptance of the project and compliance with all federal regulations and material certifications.
- State of Kansas Project Completion Certificate (PR-77). This document certifies that all tax-exempt materials purchased under the exemption certificate were incorporated into the project.
- Paid Items List by Work Type. This document provides a final breakdown of costs by work type (i.e., roadway, surfacing, bridges, traffic signals, and common items) with the participating and non-participating items clearly separated. It must include all costs associated with the project regardless of funding source.
- Final Invoice.

Examples of these documents are provided in *Appendix A* below.

15.3.2.5.8 Project Audit - Primary Responsibility – KDOT

Costs shall be audited according to the "The Single Audit Standards" set forth in <u>Federal O.M.B. Circular A-133</u>, "Audits of States, Local Governments, and Non-Profit Organizations" and in the "Code of Federal Regulations", Title <u>49 CFR 18</u>.

15.3.2.5.9 Final Payment - Primary Responsibility – KDOT

After the audit is completed, KDOT will submit the final claim to FHWA. After FHWA concurs with the final claim, KDOT will provide the LPA with a "Final Statement of Costs" for final settlement.

<u>Appendix A – Index of Items</u>

Documentation of Public Meeting

Authority to Bid

Checklist for Authority to Award

Authority to Award Contract Document from LPA

Letting Summary Document

KDOT BLP LPA Approved Sub-Contractors Form

Example of DBE Commitment Letter

Final Transmittal

Notice of Acceptance

DBE Summary Report

Construction Summary Document

Final Acceptance of Federal-Aid Project Constructed Under Exempt Oversight

Paid Items List by Work Type

Final Invoice

Project Completion Certificate (PR-77)

Documentation of Public Meeting

Documentation of Public Meeting

Project Location:
KDOT Project No.:
LPA Project No.:
Project Name:
Project Limits:
Meeting Location:
Meeting Date and Time:
Translation Services: Yes No If yes, what language(s):
Presenters:
Elected Officials in Attendance:
Total number of attendees (approx.):
Total number of commenters:
Describe how the event was advertised:
Contents/Attachments:
 A. Comment/response matrix B. Notices C. Sign-in sheet(s) D. Comments received E. Figures, handouts, etc.

Authority to Bid

Department of Transportation Bureau of Local Projects Dwight D. Eisenhower State Office Building 700 S.W. Harrison Street Topeka, KS 66603-3745 Michael J. Stringer, P.E., Chief



Phone: 785-296-3861 Fax: 785-296-2079 kdot#publicinfo@ks.gov http://www.ksdot.org

February 27, 2018

Re: 23 U-2305-01 SRTS Phase 2 City of Lawrence Douglas County

Mr. Dave Cronin. P.E. City Engineer City of Lawrence 6 East 6th Street Lawrence, Kansas 66044

Dear Mr. Cronin,

Attached is a copy of the PS&E approval from the BLP Bureau Chief. The Plans, Specifications, and Estimate (PS&E) were approved on 2/16/2018 for the referenced project and the Federal Highway Administration has approved the obligation of funds for this project. Therefore, the City is hereby authorized to take bids for contract after a minimum 30-day advertisement.

After the bids have been opened and the City has identified the lowest responsible bidder, please submit a copy of the low bidder's bidding documents, a copy of the bid tabs, and a copy of the DBE's acceptance of his subcontract offer to this office. Upon satisfactory review by KDOT, we will authorize the City to award the contract and issue the Notice to Proceed.

Sincerely,

Bill Legge, P.E. Local Road Engineer

BL Attachment

c: Richard Backlund, FHWA

Chuck Protasio, Assistant Bureau Chief, Bureau of Program & Project Management Pam Anderson, Chief Accountant-Federal Aid & Projects Accounting, w/attachment (orig.) file, w/attachment (copy)

Checklist for Authority to Award

	ITEMS REQUIRED FOR AUTHORITY TO AWARD
PROJE	CT LETTING DATE
	All required provisions that were included during PS&E review are still included?
	LPA reviewed bids for collusion (memo)?
	Submit bid tabs to Construction & Materials for review.
	Receive comments from Construction & Materials regarding review of bid tabs?
	04-26-90: Declaration - Limitations on Use of Federal Funds signed by Contractor?
	08-10-66: Certification – Non-collusion and History of Debarment signed by Contractor?
	07-19-80: DBE Contract Goals completed and signed by Contractor?
	DBE Commitment Letter signed by DBE?
	01-01-11: Tax Clearance Certificate completed and signed by Contractor?
	Does listed DBE participation equal or exceed the established DBE goals?
	Are listed DBE contractors on the approved DBE list?
Revise	d 10/2014 Checklist for Authority to Award

Authority to Award Contract Document from LPA

December 1, 2014

John Smith Bureau of Local Projects Kansas Department of Transportation Dwight D. Eisenhower State Office Building 700 SW Harrison Street, 3rd Floor Topeka, KS 66603-3745

XX N-XXXX-01 GEOMETRIC IMPROVEMENTS - CITY OF ANYTOWN

Dear Mr. Smith:

Please find the attached AUTHORITY TO AWARD CONTRACT COMMITMENT OF FEDERA L/STATE FUNDS that has been executed by the City of Anytown. You will also find a copy of the bid tabulation resulting from the letting on November 30, 2014, and the required contract documents indicating Contractor compliance with the following items:

- Certification Non-collusion and History of Debarment;
- Declaration Limitations on use of Federal Funds for Lobbying;
- Certification Contractual Services with a Current Legislator or a Current Legislator's Firm;
- DBE Contract Goals (DBEs are on the approved KDOT list); and
- DBE subcontractor commitments.

Acme Construction Company, the design consultant, and Anytown staff have reviewed the detailed bid tabulations and compared them with other recent bid lettings on similar projects in the City of Anytown. We find no evidence of contractor collusion or bid rigging.

We are requesting KDOT authorization, so we can award this contract by December 15, 2014. Please return the fully executed copy to my attention.

If you have any questions or comments, please contact me as soon as possible.

Sincerely, Sally Jones, PE Project Manager, Anytown, KS

Attachment

Authority to Award Contract Document from LPA (Continued)

		September 3	50, 2016	
	(X N-XXXX- STP-NXXX()	01 (Project Name) (01)		
		re received at Anytown d by plans on the abov		
WHERE	AS the bidd	er and low bid or bids o	on work covered on th	is project were:
CONTRACTOR	ł	ADDRESS	TYPE OF WORK	AMOUNT
Acme Construct	tion Co.	P.O. Box 1234 Anytown, KS 66xxx	Grading, Surfacing, Seeding	\$1,000,000.00
The State Trans fund the cost of	sportation Er constructior	ngineer of the State of n in accordance with th	Kansas, and the City o e City/State Agreemer	of Anytown agree to nt No. XXX-YY.
fund the cost of Recommended	constructior for Approva	in accordance with th	Kansas, and the City o e City/State Agreemen	of Anytown agree to ht No. XXX-YY.
fund the cost of	constructior for Approva	in accordance with th	Kansas, and the City o e City/State Agreemer Date	of Anytown agree to ht No. XXX-YY.
fund the cost of Recommended Sally Jones, P.E	construction for Approva E. re Title atrick, P.E.	n in accordance with th I:	e City/State Agreemer	of Anytown agree to ht No. XXX-YY.
fund the cost of Recommended Sally Jones, P.E City of Anywher Catherine M. Pa	construction for Approva E. re Title atrick, P.E.	n in accordance with th I:	e City/State Agreemer	of Anytown agree to ht No. XXX-YY.

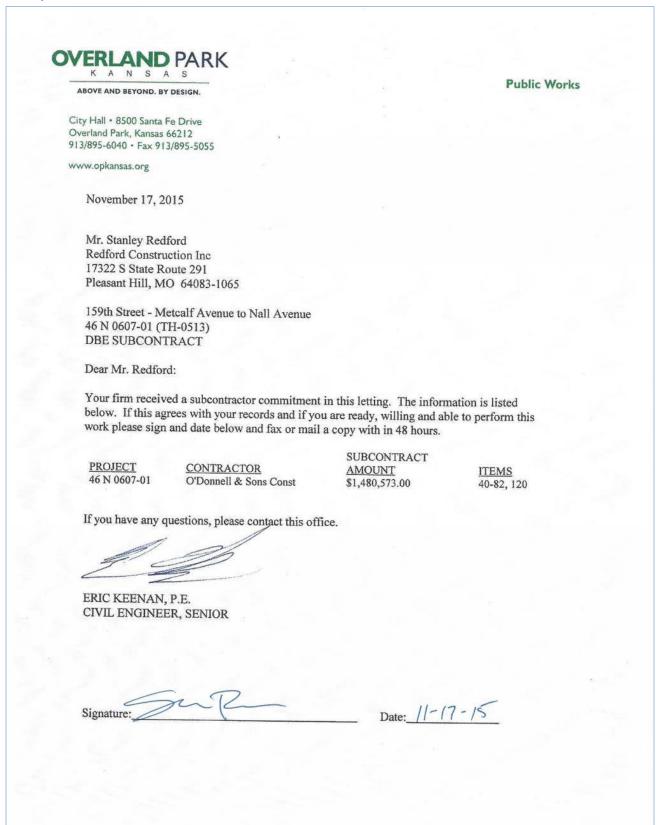
Letting Summary Document

Lenex	
L	LETTING SUMMARY DOCUMENT November 6, 2013
	5-01 / HSIP-N054(501) oulevard & Lackman Road Traffic Improvements
Johnson County	
MEMORANDUM TO: B	Bureau Chief - Bureau of Local Projects
dates indicated in accord	enced project was advertised in publications listed below on the dance with Section 102.01 KDOT's Standard Specification for construction, current edition.
Publication Legal Record	Date Advertised 7/23/13, 7/30/13, 8/6/13, 8/13/13, 8/20/13
Kansas Register	7/25/13, 8/1/13, 8/8/13, 8/15/13, 8/22/13
for State Road and Bridg	e prequalified in accordance with KDOT's Standard Specification ge Construction, current edition, and KDOT's Construction (en from KDOT's list of pre-qualified contractors.
	ents that were used fulfilled federal and state requirements in ures and with the City of Lenexa's Project Procedures Manual.
Hall, 12350 W. 87 th Stre	f the proposals took place August 29, 2013 at Lenexa City eet Parkway, Lenexa, Kansas in accordance with State Law th the City of Lenexa's Project Procedures Manual.
	west responsible and qualified bidder was accepted and I on October 15, 2013 in accordance with the City of Lenexa's nual.
Tim Green, PE City Engineer	<u></u>
	/ 12350 West 87th Street Parkway / Lenexa, Kansas 66215-2882 f Lenexa / P.O. Box 14888 / Lenexa, Kansas 66285-4888 Telephone (913) 477-7500 / Fax (913) 477-7504

KDOT-BLP LPA Approved Sub-Contractors Form

		ROVED SUB-CONTRACTORS	
County:		KDOT Project No.	
	L	PA City:	
	Prime Co	ontractor:	
The LPA hereby	Certifies that (Check one):	
contain the Provisions, Opportunity The require	ided contracts. These cont applicable Required Contr Specific Equal Employmer Responsibilities, and FHV ments of this Contract Pro ly incorporated into such s	act applicable Required Cor nt Equal Employment Opp VA-1273. Requirements. The appl vision will Contract provision will b	ntract Provisions, Specific
Sub-Contractor	DBE (Y or N)	Line Items Responsible for	Total Amount
		TOTAL	\$ -
		PA APPROVAL	20
		, nth) (Day)	20 (Year)
	Ву	Local Public Authority	

Example of DBE Commitment Letter



Final Transmittal



Notice of Acceptance

	an di seconda di second	e. X
e. T	CITY OF OLATHE	
	NOTICE OF ACCEPTANCE	
۵.,	X OF CONTRACT OF PORTION OF CONTRACT	
	TO Gunter Construction Company CONTRACTOR	
	CITY <u>OLATHE</u> PROJECT NO. <u>3-C-002-11</u> KDOT PN 46 N-0568-01	
	TYPE OR NET 0.122 KILOMETERS BRIDGE NO. Turn Lane Addition LENGTH OF PROJECT: GROSS 0.122 KILOMETERS	
	PREVIOUS SURFACE TYPE NEW SURFACE TYPE Asphalt	
	DATE CONTRACTOR COMPLETED WORK November 14, 2013	
in The	You are hereby notified that the contract described as follows: <u>400 L.F. of turn lane addition with</u> <u>demolition and removal of existing curbs and pavement, storm sewer modifications, traffic signal</u> <u>modifications, and all other related work and appurtenances necessary to complete the project.</u> was accepted on <u>November 14, 2013</u> and you are hereby relived of your responsibility for maintenance of barricades, lights and watchmen, and will be required to perform no additional work or maintenance subject to contractual requirements and the following conditions:	
	RECOMMENDED BY: APPROVED BY City Engineer City Engineer	
	This is to affirm that I agree to the acceptance of the portion of the contract and to the conditions stated above.	Ϋ́.
	CONTRACTOR	
	SIGNED BY	
	NOTE: Contractor's signature required only for acceptance of portion of contract. This form to be mailed to the Contractor and to the Bureau of Construction and Maintenance on the date of acceptance of the project.	
	a a a a a a a a a a a a a a a a a a a	
	2/10/98 City Form V-2398	
	3	

DBE Summary Report

City of Olathe

DBE SUMMARY REPORT

MEMORANDUM TO: Bureau Chief, Bureau of Local Projects Date: <u>December 5, 2013</u>

Project: <u>151st & Mahaffie Geometric Improvements</u> Johnson County

KDOT Project No. 46N-0568-01

Contractor: <u>Gunter Construction Company</u> Contract Amount: <u>\$153,086.98</u>

DBE SUBCONTRACTOR

Tenoch Construction, Inc

SUBCONTRACT AMOUNT \$13,000

<u>PERFORMED</u> 7

ITEMS

Project Enginee

Construction Summary Document

CONSTRUCTION SUMMARY DOCUMENT DATE: December 1, 2014

Project: <u>XYZ Geometric Improvements Project</u> Location: <u>Nowhere County</u>

MEMORANDUM TO: Bureau Chief, Bureau of Local Projects

Notice to proceed on the referenced project(s) was issued to <u>Acme Construction Company</u> Contractor(s) on April 1, 2014 in accordance with Section 101.43, KDOT's Standard Specification for State Road and Bridge Construction, current edition.

Contract administration was completed in accordance with the requirements referenced in Section 15.3.2.5, LPA Project Development Manual.

Notice of Acceptance of the contracted work was issued to the contractor(s) in accordance with Section 105.17, KDOT's Standard Specification for State Road and Bridge Construction, current edition.

Materials Certification was completed in accordance with Section 2.07, KDOT's Construction Manual, current edition, and Section 2600, KDOT's Standard Specification for State Road and Bridge Construction, current edition.

Preliminary Engineering (PE) performed by the PE consultant was accepted as complete.

Construction Engineering (CE) performed by the CE consultant was accepted as complete.

City Engineer

Final Acceptance of Federal-Aid Project Constructed Under Exempt Oversight

C	TY OF OLATHE
	IY OF OLATHE
	E OF FEDERAL – AID PROJECTS UNDER EXEMPT OVERSIGHT
KDOT PROJECT NO. <u>46-N-0568-01</u>	CITY: OLATHE
DESCRIPTION OF IMPROVEMENT AS PROGI removal of existing curbs and pavement, storm sev related work and appurtenances necessary to comp	RAMMED: <u>400 L.F. of turn lane addition with demolition and</u> ver modifications, traffic signal modifications, and all other lete the project.
CONTRACTOR'S NAME: Gunter Construction Company	CONTRACT AMOUNT: \$153,086.98
C	
FINAL INSPECTION:	BY: MOLOS HAA Project Engineer DATE: 1814
FINAL INSPECTION: APPROVAL:	Project Engineer
	BY: Celia J. Duran, P.E City Engineer
	BY: Celia J. Duran, P.E City Engineer
	BY: Celia J. Duran, P.E City Engineer
	BY: Celia J. Duran, P.E City Engineer

Paid Items List by Work Type

nem					ipating		ticipating
No	Item Name	Qty	Unit	Unit Price	Total Price	Unit Price	Total Price
1	Clearing and Grubbing Excavation and Grading	245	L.S. C.Y.	1,145.00	1,145.00 24,500.00		
3	Curb and Gutter Removal and Disposal	93	S.Y.	50.00	4,650.00		
4	Sidewalk Removal and Disposal	371	S.Y.	11.00	4,081.00		
5* 6*	6" Aggregate Base (OP-Modified AB-3) Install 2" Superpave Asphaltic Concrete	429	S.Y.	14.00	6,006.00 8,975.00		
7*	Install 8" Superpave Asphaltic Concrete Base	259	S.Y.	71.00	18,389.00		
8*	Install 10" Concrete Pavement	59	S.Y.	83.00	4,897.00		
9	Install Type B Concrete Curb & Gutter	408	L.F.	17.00	6,936.00		
10	Install 4" Concrete Sidewalk (5' width) Install ADA Handicap Sidewalk Ramp	233	S.Y. ea.	30.00	6,990.00 1,390.00		
12	Convert Curb Inlet to Junction Box	1	ea.	2,250.00	2,250.00		
13	Install 4'x4' Curb Inlet	1	ea.	3,000.00	3,000.00		
14	Install 15" RCP	9	L.F.	100.00	900.00		
15 16*	Install 6" HDPE Underdrain 4" Solid Yellow Cold Plastic Line	193 80	L.F.	15.00	2,895.00 200.00		
17	6" Solid White Cold Plastic Line	424	L.F.	3.50	1,484.00		
18	6" Solid White Cold Plastic X-Walk Line	223	L.F.	3.50	780.50		
19	6" Dotted White Cold Plastic Extension Line	415	L.F.	1.25	518.75		
20	12" Solid Yellow Cold Plastic Diagonal Line 24" Solid White Cold Plastic Stop Line	23 45	L.F. L.F.	7.00	161.00 630.00		
22	Turn Arrow White Cold Plastic	5	ea.	185.00	925.00		
23	Turn/Thru Arrow White Cold Plastic	3	ea.	275.00	825.00		
24 25	Word Symbol White Cold Plastic	1	ea.	250.00	250.00		
25	Permanent Street Signing Traffic Signal Reconstruction (Mahaffie Street)	1	ea. L.S.	300.00 35,950.00	35,950.00		
27*	Sod - (Tall Turf Type Fescue)	518	S.Y.	6.00	3,108.00		1
28	Erosion Control and SWPPP Compliance	1	L.S.	600.00	600.00		
29 30	Mobilization DBE Mobilization	1	L.S. L.S.	6,305.00 1,000.00	6,305.00 1,000.00		
31	Temporary Traffic Control	1	L.S.	3,450.00	3,450.00		
32	Construction Staking	1	L.S.	950.00	950.00		
33* 34**	Additional Milling Damage to Traffic Signal Cabinet	1	LS LS	1,162.04 (2,816.31)	1,162.04 (2,816.31)		
54	Bid Total		LO	(2,010.51)	\$ 153,086.98		S .
	•			•		•	
	Work Type Summary						1
				Participating	Non-Participating	Total	j
	Common Items						
	Roadway			P			
	Surfacing						-
	Storm/Sewer/Water Traffic Signals						-
	Total					9	1
	Note: Please email	the N	ΛS E	xcel spread	dsheet to t	he PM.	

Final Invoice (Page 1 of 2)

ESTIMATE NO: 4 - Final PROJECT NO. 3-C-002-11 ENC# 700143 PROJECT NAME: 151st & Mahaffie Turn Lane DATE: 11/13/2013 OL 200982 **ENGINEER: Schlagel and Associates CONTRACTOR:** Gunter Construction Unit Contract Units Value of Work % Item# Item **Quanity Unit** Cost Price to Date Completed Complete 1 **Clearing and Grubbing** LS 1,145.00 \$1,145.00 1 1 \$1,145.00 100% Excavation and Grading 2 245 CY 100.00 \$24,500.00 245 \$24,500.00 100% з Curb and Gutter Removal and Disposal 93 SY 50.00 \$4,650.00 93 \$4,650.00 100% 4 Sidewalk Removal and Disposal 371 SY 11.00 \$4,081.00 371 \$4,081.00 100% 5* 6" Aggregate Base (OP-Modified AB-3) 429 14.00 SY \$6,006.00 429 \$6,006.00 100% 6* Install 2" Superpave Asphaltic Concrete 359 SY 25.00 \$8,975.00 359 \$8,975.00 100% 7* Install 8" Superpave Asphaltic Base 259 SY 71.00 \$18,389.00 259 \$18.389.00 100% 8* Install 10" Concrete Pavement 59 SY 83.00 \$4,897.00 59 \$4,897.00 100% 9 Install Type B Concrete Curb & Gutter 408 LF 17.00 \$6,936.00 408 \$6,936.00 100% 10 Install 4" Concrete Sidewalk (5' width) 233 SY 30.00 \$6,990.00 233 \$6,990.00 100% 11 Install ADA Handicap Sidewalk Ramp 1 Ea 1.390.00 \$1,390.00 \$1,390.00 100% 1 12 Convert Curb Inlet to Junction Box 1 2,250.00 Ea \$2,250.00 1 \$2,250.00 100% 13 Install 4'x4' Curb Inlet 1 3,000.00 \$3,000.00 Ea 1 \$3,000.00 100% 14 Install 15" RCP 9 LF 100.00 \$900.00 9 \$900.00 100% 15 Install 6" HDPE Underdrain 193 LF 15.00 \$2,895.00 193 \$2,895.00 100% 16* 4" Solid Yellow Cold Plastic Line 80 LF 2.50 \$200.00 80 \$200.00 100% 17 6" Solid White Cold Plastic Lane Line 424 LF 3.50 \$1,484.00 424 \$1,484.00 100% 18 6" Solid White Cold Plastic X-Walk Line 223 LF 3.50 \$780.50 223 \$780.50 100% 19 6" Dotted White Cold Plastic Extension Line 415 LF 1.25 \$518.75 415 \$518.75 100% 20 12" Solid Yellow Cold Plastic Diagonal Line 23 LF 7.00 \$161.00 23 \$161.00 100% 24" Solid White Cold Plastic Stop Line 21* 45 LF 14.00 \$630.00 45 \$630.00 100% 22 185.00 **Turn Arrow White Cold Plastic** 5 Ea \$925.00 5 \$925.00 100% 23 Turn/Thru Arrow White Cold Plastic 3 Ea 275.00 \$825.00 3 \$825.00 100% 24 Word Symbol White Cold Plastic 1 Ea 250.00 \$250.00 \$250.00 1 100% 25 2 Permanent Street Signing Ea 300.00 \$600.00 2 \$600.00 100% 26 Traffic Signal Reconstruction (Mahaffie St) 1 LS 35,950.00 \$35,950.00 \$35,950.00 1 100% 27* Sod - (Tall Turf Type Fescue) 518 SY 6.00 \$3,108.00 518 \$3,108.00 100% 28 **Erosino Control and SWPPP Compliance** 1 LS 600.00 \$600.00 1 \$600.00 100% 29 Mobilization 1 LS 6,305.00 \$6,305.00 1 \$6,305.00 100% **DBE Mobilization** 30 1 LS 1.000.00 \$1,000.00 \$1,000.00 100% 1 31 Temporary Traffic Control 1 LS 3,450.00 \$3,450.00 1 \$3,450.00 100% 32 **Construction Staking** 1 LS 950.00 \$950.00 1 \$950.00 100% 33* **Additional Milling** 1,162.04 \$1,162.04 1 LS \$1,162.04 1 100% 34** Damage to Traffic Signal Cabinet 1 LS (2,816.31)(\$2,816.31) 1 (\$2,816.31) 100% \$153,086.98 \$153,086.98

Unused Materials on Hand

\$0.00

Final Invoice (Page 2 of 2)

90 							
STIMATE NO: 4	- Final			PROJECT NO. 3	3-C-002-11	ENC# 700143	
ROJECT NAME:	151st & Mahaffie Turn Lane			DATE: 11/13/2	013		
NGINEER: Schla	agel and Associates			CONTRACTOR: 0	Gunter Cor	struction	
					. 4.		
			Unit	Contract	Units	Value of Work	%
em#	Item	Quanity Unit	Cost	Price	to Date	Completed	Complete
and a second						an ar i	
RIGINAL CONTR	RACT AMOUNT			\$149,023.25			
CHANGE	ORDER 1	*		\$6,880.04			
CHANGE	ORDER 2			(\$2,816.31)	S. 182	19 10	190
EVISED CONTRA	ACT AMOUNT			\$153,086.98			
	ne setter and the set of the setter of the set						
Total Valu	ue of Work and Unused Material	on Hand		ar ar		\$153,086.98	
Total Prev	vious Payments			\$145,155.54			
	vious Retainage			\$7,639.77			
	vious Value of Work & Unused Ma	aterial on hand	Ş	\$152,795.31		Ϋ́	
	ments to Date			\$153,086.98			
	ainage to Date			\$0.00			
	Remaining on Contract			\$0.00			
Amount				\$0.00	ж. Х		
			. d.)	į.			
	alue of Work & Unused Material	on Hand				\$7,931.44	
Less % To	o be Retained (0%)					\$0.00	
AMOUNT	DUE	3				\$7,931.44	
	1.00 million and an and an						100%
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Design t	lanager_heleRH	A			-		
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Project M	Nanager	A			-		9
Project N	Nanager	A		-	-		3 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Project N	Nanager	A			-		3

Office of Policy & Research Kansas Department of Revenue 915 SW Harrison Street Topeka, KS 66612-1588	e		one: (785) 296-3498 Fax: (785) 296-7928	
STATE OF KANSAS PROJECT COMPLETION CERTIFICATE				
TO: <u>City of Olathe</u>	Name of Entity to whom Project I	xemption Certificate was Issued		
100 E Santa Fe Street	Olathe City	Kansas State	66061 Zip Code	
Gunter Construction Compa		were entitled to an exemption		
79-3606(d), (e), or (ee), as a <u>Gunter Construction Compa</u> <u>Contractor/Subcontractor</u> <u>510 Southwest Boulevard, S</u> P.O. Box and/or Street Number	iny			
Gunter Construction Compa Contractor/Subcontractor 510 Southwest Boulevard, S	iny Ste A r and Name	<u>12/6/13</u> Date		
Gunter Construction Compa Contractor/Subcontractor 510 Southwest Boulevard, S P.O. Box and/or Street Number Kansas City, KS 66103 City, State Zip Machine Completion of a tax exer	iny Ste A r and Name	<u>12/6/13</u> Date ONS	yer for which the work	

16.0 <u>City Connecting Link Improvement Program (CCLIP)</u>

16.1 Introduction

The City Connecting Link Improvement Program (CCLIP) is a federal and state-funded program that provides funds to cities to address deficiencies or improve a City Connecting Link on the State Highway System. A City Connecting Link is defined as any routing of the State Highway System that is located within the corporate limits of a City. All City Connecting Links are eligible under this program except those on the Interstate System and fully controlled access sections on the Freeway System.

16.2 **Program Categories**

The City Connecting Link Improvement Program consists of three program categories that each target specific types of improvements:

16.2.1 <u>Surface Preservation (SP)</u>

(Previously known as KLINK.) This fund category is intended to address deficiencies in or extend the life of the driving surface. Project scopes may consist of overlay, mill and overlay, pavement patching, joint repair, seals, or similar surface maintenance work. Parking lanes may be included. Construction of ADA curb ramps, as required by Federal Regulation and Department of Justice guidance, will be included regardless of the funding source. Bridge improvements, curb and gutter repair or replacement, drainage improvements, construction or improvement of sidewalks beyond the ADA ramps, or geometric improvements may be included in a project but shall not be eligible for program funding.

For more information regarding Surface Preservation projects, see Section 20.0 CCLIP-SP in this Manual.

16.2.2 Pavement Restoration (PR)

This fund category is intended to address deficiencies in the road surface that are too extensive or expensive to be addressed by the measures under the **SP** category. Actions under this category could include full-depth pavement replacement of the entire driving surface or extensive pavement rehabilitation. Other related improvements, such as curb and gutter repair/replacement, storm sewer, parking lanes, or sidewalk construction may be included in the scope of projects and are eligible for the funding. Typically, **PR** projects will not include any modification of the roadway geometrics other than restoring appropriate cross section.

16.2.3 Geometric Improvement (GI)

This category is intended to address a safety, capacity, or operational need that can be addressed by changing the roadway geometrics. Examples of projects under this category include, but are not limited to,

intersection reconstruction to reduce encroachments over the curb from off-tracking of turning trucks; addition or extension of turn lanes; widening of the roadway to accommodate larger vehicles; or sight distance improvements.

16.3 <u>Funding</u>

Projects in the **SP** category will be funded solely with state and city funds. Funding for the Construction and Construction Engineering work phases in the **PR** and **GI** categories will be a combination of city, state, and/or federal funds. All other work phases in the **PR** and **GI** categories will be paid with city and/or state funds.

KDOT will determine the total amount and source of funds to be made available for the CCLIP annually as well as the amount and fund source(s) for each project awarded. In addition, KDOT will determine the distribution of the available funds among the three program categories based on the applications received and a prioritized selection process.

The maximum dollars that KDOT will provide for an individual project in each program category is as follows:

- 1. Surface Preservation:\$300,0002. Pavement Restoration:\$1,000,000
- 2. Competric Improvement: \$1,000,000
- 3. Geometric Improvement:\$1,000,000

Required matching funds for projects in all program categories are based on population in accordance with the following table:

	Participation Ratio	
	Minimum	Maximum
City Population	City	State/Federal
Group	%	%
0-2,499	0	100
2,500 - 4,999	5	95
5,000 - 24,999	10	90
25,000 - 49,999	15	85
50,000 - 99,999	20	80
100,000 -	25	75

KDOT will determine the associated costs that receive the State's participation.

Eligible costs for **SP** category projects include only construction and construction engineering. Eligible costs for **PR** projects include preliminary engineering, construction, and construction engineering. Eligible costs

for **GI** projects include preliminary engineering, utility adjustments, right-of-way acquisition, construction, and construction engineering.

16.4 Rules and Procedures

KDOT will issue a "Call for Projects" for the City Connecting Link Improvement Program requesting project applications from Cities. The City shall submit a project application using the <u>CCLIP Application Form 1330</u>.

The KDOT District Engineer (or their designated representative) and BLP staff will meet with City representatives and review each proposed project site. This meeting will be the opportunity for City representatives to identify the project's importance and to provide sound reasons for funding priority.

BLP and the District Engineers will determine the appropriate program category for each project and prioritize project applications within each District. BLP will develop a statewide program based on this prioritization and input from all District Engineers. BLP will submit this list of projects to the Secretary for approval.

When a project is selected for funding, KDOT and the LPA will enter into an agreement that outlines the requirements and responsibilities for the project.

Cities with projects in the Surface Preservation category will be responsible for all preliminary engineering and construction administration, including plan preparation and letting of the contract for construction. Plans and specifications must be approved by BLP for conformance to KDOT specifications prior to the city advertising the project for bids. The City will coordinate with the KDOT District for final acceptance of the construction activities. The City will be responsible for all payments to the contractor; KDOT will reimburse eligible costs upon completion of the project and receipt of appropriate documentation.

All contracts for the construction of projects in the Pavement Restoration and Geometric Improvement categories shall be let by KDOT unless the City has been approved under the KDOT LPA Locally Administered project development procedures. KDOT will be responsible for making payments to the Contractor. KDOT will request the City's matching funds at the time of letting. Cities are responsible for plan development, right of way acquisition, and utility relocations. BLP will review the plans for compliance with applicable procedures and requirements.

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17.0 Bridge Design

17.1 Field Check

Plan details for the field check portion of the design process are intended to familiarize our offices and departments with the site before physically visiting the site. The components discussed below are necessary elements of the skeleton of the final project plans. The onsite field check meeting to discuss important details of the project will produce a strategy for the remaining design of the project. This strategy will be enhanced depending on the amount of information provided to BLP in the field check plans. This section explains the bare minimum of what to include on each sheet required for Field Check Plans. If, however, more information is available to the consultant, additional sheets and additional design information may be added to aid in better describing the overall project site, and aid in the cooperative effort of developing the final set of design plans.

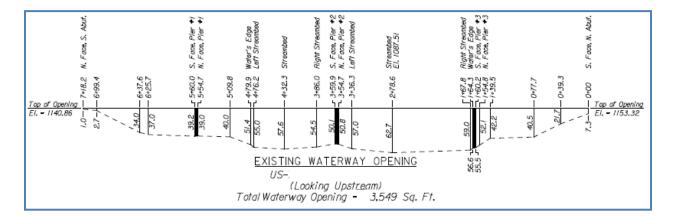
17.1.1 Bridge Plan Assembly

For all bridge length structures, the field check plan should contain, as a minimum, a Contour Map, a Construction Layout at the site of the bridge, and a Typical Section of the proposed bridge(s). As a typical drafting standard, the text on each sheet should be readable from either the bottom of the sheet or the right side of the sheet. As a rule of thumb, field check defines the point where the plans should be approximately 50% complete. However, the total of the bridge sheets may be at only 15-20% complete. The probable structure has been decided upon, with span lengths and location of the bridge decided and the design of the bridge itself has advanced. Once this has been confirmed at the field check meeting the last major aspect, investigating geology, can be organized to allow the design of the bridge to progress to final stages. The three primary sheets necessary for field check plans will be mostly complete by the time of submittal.

A fifteen-digit structure ID is required for every bridge-length structure on the local system. The existing structure ID must be retired and removed from the National Bridge Inventory (NBI) if the bridge is replaced. A new structure ID must be assigned (by BLP) to any newly constructed bridge-length structure. If a particular number is desired by the owner to maintain their own numbering system for new bridges, this number must be decided upon and communicated to the consultant before Field Check Plan submittal. If the desired number is not on the Field Check Plans, or no particular number is desired by the LPA, a number will be assigned and reserved by BLP Bridge during the Field Check Review stage of plan development.

17.1.1.1 Contour Map

Using data compiled from a recent survey, the plan sheet contours should be plotted at 2'-0'' intervals in most cases. The typical scale for a contour map will be 1'' = 50'. Include a simple line sketch elevation view of the existing waterway opening (and any adjacent structures) with substructure elements depicted, along with station and actual elevation or relative elevation of pertinent features such as bottom of streambed, top of opening, etc.



Plan view will include:

- □ At least two P.O.T. references
- □ Centerline curve data if applicable
- □ Centerline with stations above or to the right
- □ Section, township, and range with property owner information
- \Box Type of land use
- \Box Any structures, fence lines, drainage structures, etc.
- □ Location, type, and size of utilities and owner information
- \Box Stream name and direction of flow
- \Box Existing right-of-way and existing easement(s)
- \Box Contours at 2' intervals
- □ Existing road, path or rail and all existing structures
- D Proposed improvements, right-of-way, easements, Construction Limits
- □ Proposed Bridge
- Proposed channel changes or improvements with stationing, elevations and line sketch of proposed typical cross-sections
- □ Shoofly Detour Alignment and structures, if applicable
- □ If possible, indicate where historic high-water elevation was established
- \Box Standard North arrow with selected scale of the sheet

This sheet will also include notes/callouts for "Remove" and "Construct" as appropriate for the Existing and Proposed bridges. The station at centerline, the old and new fifteen-digit structure numbers, and a short bridge description (with the four-character structure designation) should be included along with the

Demolition Category and Erection Category for the corresponding structures. If no Erection Plans are required by KDOT Specifications it is recommended the designer state "Erection Plans Not Required" instead of the Erection Category. There are some structures KDOT Specifications do not require to have Erection Plans, but do require falsework plans. "Category (X) Falsework" within the "Construct" callout is recommended in this case.

or No Erection Plans Required

€ Sta. 60+40.00 Remove Br. No. 60' - 2 @ 80' - 60' Continuous Low Steel Truss (SLTC) Spans 26' Roadway Demolition Cateogry A

Several notes pertaining to the removal of the structure may be needed. If the bridge is steel and may have paint containing lead, this needs to be clearly stated on the contour map, as well as on any other sheets involving removal. Disposal of this material will fall under the contractor's responsibility if there is no salvage on the part of the county. If there is conclusive evidence or testing has indicated use of lead paint on the existing bridge, state this in a note on the sheet. The LPA may wish to salvage part of the existing bridge so a note should specify what elements will be salvaged, where it will be stockpiled, and who will remove the material from the site. If the LPA does not wish to salvage any part of the bridge, it is recommended to place a note stating the same so the issue is clearly addressed and dismissed, or simply include the information in the note specifying the contractor will remove the existing bridge and remove the material from the site and the county does not wish to salvage any part of the bridge. The decision to salvage material from the existing bridge may not have been made before the field check meeting, so this information is only required on the sheet once the Office Check Plans are submitted.

Any "critical path" notes should be placed on the sheet to aid in the overall construction plan. For example, if a channel change or channel improvement is required on a proposed project with limited headroom under the bridge, or if special bridge spill slopes and slope protection are to be constructed at the site, a note stating the Grading Contractor is required to excavate and complete the channel or spill slopes prior to construction of the Bridge should be included.

If the location of the historic high-water elevation was established as a general observation similar to "the bridge overtopped in 2009 by approximately 1 to 2 feet according to local residents," place a note stating the same on the Contour Map. If a known elevation is achieved using visible drift, or high-water marks, indicate the location on the Plan View and include a note stating how the elevation was established.

17.1.1.2 <u>Construction Layout</u>

The sheet should be at a larger scale as compared to the Contour Map so additional detail can be seen, detailed and dimensioned. 1'' = 20' is a typical scale used for the sheet, but may be increased if needed for easier dimensioning and labeling. This sheet will detail and dimension a plan view of the bridge and an elevation view of the bridge along with various pieces of information pertinent to the bridge and construction site characteristics.

17.1.1.2.1 <u>Compliance Requirements</u>

This view will typically include contours at 2'-0" intervals similar to the Contour Map sheet. If the site is fairly level and due to the increased scale, as compared to the Contour Map, 2'-0" intervals may not display enough detail so the interval may need to tighten to 1'-0". Indicating direction of flow for streams and railroad ditches is also required, if applicable. Always include a standard North arrow with the selected scale on the sheet. The increased scale will allow better detail on location and size of any utilities on site. Owner's information will be clearly stated for each utility line.

B.M. #16 ¾" bolt head in SE end of S hubguard of bridge over Blue River 81.8' Lt. ©Sta 56+81.0 Elev = 1146.04

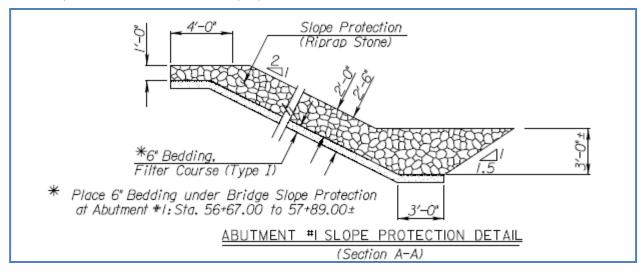
B.M. #17 ¾" bolt head in NW end of N hubguard Big Blue River Bridge 118.7' Lt. ©Sta 64+33.5 Elev - 1159.32

The designer should attempt to show a minimum of two benchmarks within the plan view limits, preferably on opposite sides/ends of the bridge. If the increased scale prevents locating the benchmarks on the plan view on the sheet, describe the locations and state the established elevation. The reference datum description typically placed on the first Plan and Profile sheet will likely need to be repeated on the Contour Map and Construction Layout sheets to simplify the process if the bridge sheets are separated out from the rest of the plan sheets for subcontractors' uses.

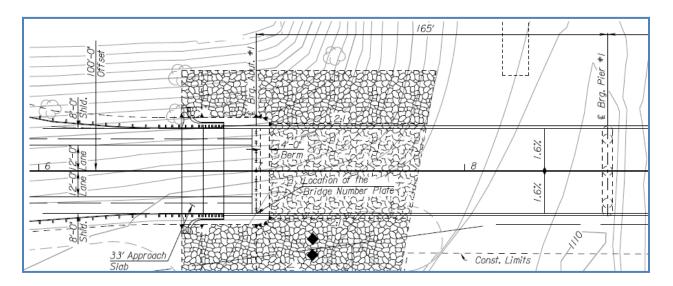
Centerline Project and Baseline should be clearly indicated. Stationing along project centerline should be shown in proportion to the project limits. Existing streambed and proposed streambed (and stationing) is to be clearly defined as well as the name of the stream and the flow direction.

Proposed foundation types and locations should be shown to aid in the geology investigation. Occasionally the project scope does not support the need for a separate Geology sheet so the information provided by the final Geology Report will be placed on the Construction Layout sheet after the investigation.

The extents of any slope protection, shot rock, gabions, drip lines, walls, or other proposed bridges should be shown on the layout graphically with macro dimensions. Any necessary typical sections of these bridges to depict geometric details should also be shown if the same bridges are not examined on additional sheets. Additionally, any channel improvements need to be detailed within the plan view along with section views of the improvements for construction purposes.



The bridge information in the plan view will include span dimensions from bearing to bearing, stationing, callouts for the approach slab sizes, lane and shoulder width dimensions on each end of the bridge, total roadway width on the bridge, plan thickness dimension of the rails or barriers, cross-slope grades on each side of Crown Grade, inside face of rail or barrier to Crown Grade dimension on each side of Crown Grade, Crown Grade offset from Centerline dimension (if applicable), bridge berm dimension at each abutment, and location of any number plate or plaque (if applicable)(number plates or plaques are non-participating items). Limits of slope protection at each abutment is also shown in the plan view both graphically and dimensionally, if the entire limits can fit within the trimmed view of the bridge at the increased scale.



17.1.1.2.2 Elevation View

The elevation view provides a macro-view of the proposed bridge and the foundation elements. It is important to modify the scale for both plan and elevation view in order to accomplish the level of detail necessary on the sheet. The elevation is typically a longitudinal section at the Centerline or Crown Grade of the bridge. All stations and top of deck elevations will be taken at the Crown Grade, Profile Grade or Centerline of the bridge depending on the complexity of the bridge and the designer's preference. It is useful to include the graphic representation and possibly dimensions from the nearest new foundations to the foundation elements of the existing bridge as information the bridge contractor may need in preparing a bid.

Each End of Wearing Surface (EWS) and Centerline (CL) bearing will be labeled with an element number (Abutment 1, Pier 1, etc. if applicable), station to the nearest 0.01 foot, and elevation for top of deck to the nearest 0.01 foot. The elevations will be labeled according to which project line is used (Cr. Gr., Pr. Gr., etc.). Dimension individual span lengths, the remaining distance between centerline of abutment to EWS, as well as the entire EWS to EWS length.

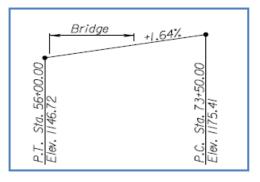
Callout the grade of the roadway, if constant, or simply label as Cr. Gr. VC or something similar and provide a line sketch of the vertical curve near the elevation view. This sketch should contain a not-to-scale graphic of the vertical curve including all pertinent curve information graphically or in a small table as well as the

bridge location shown on the graphic. Horizontal curve data, if applicable, should also be stated on this sheet for further discussion during a field check meeting.

Elevations for this view include Crown Grade (or Profile Grade) at each EWS and each substructure element at centerline of bearing, top of pile or top of shaft, top of berm, and various hydraulic elevations including ordinary high water, design high water, historic high water. Also include the clearance dimension to low structure from design high water.

17.1.1.2.3 Hydraulic Assessment Checklist

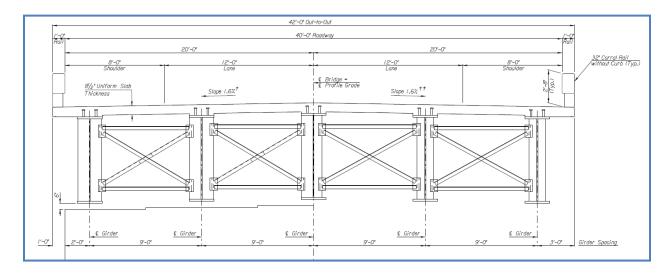
A preliminary <u>Hydraulic Assessment Checklist (HAC)</u> will provide the information required to fill out a standard Drainage Data note. The correct drainage data note will need to be on the plans with the data filled in from the HAC. The data required to be on the final plans changes occasionally, so it is necessary to use the latest electronic HAC and the latest standard note available from the KDOT website.



17.1.1.3 <u>Typical Section</u>

A typical section is required for each proposed bridge, and is very useful to have prepared for the Field Check plan stage. The complexity of the bridge determines how many "typical" sections may be required in the final plans. The purpose of the typical section sheet, in the final plans, is to display typical dimensions, vertical and horizontal spacings, reinforcing steel sizes, cross slopes, bearing types, elevations and to indicate stations of the changing "typical" section in more complex bridges. For purposes of Field Check, the typical section is used to depict a rough approximation of bridge type and size with macro dimensions, proposed rail type and size, deck type and thickness, and proposed cross slope of the bridge. A typical section can be included on another sheet if the bridge is reasonably simple. For example, a RCB standard drawing includes the elevation view of the bridge, the typical section of the bridge, and the bill of reinforcing for the box all on the same sheet. The simplicity of this type of bridge dictates the simplicity of the typical section.

As bridges increase in complexity, the typical section sheet(s) needs to display more information. If the bridge is a relatively basic open span bridge the typical section may include a section near mid-span, and one near an interior support, or a half section at an interior support with the other half depicting the section at mid-span.



17.2 Office Check

Plan details for the office check portion of the design plans concentrate on preparing the remainder of the sheets to explain the details and specifications of the designed bridge. The components discussed below are the necessary elements. The field check plan review and onsite field check meeting addressed changes necessary to the first submittal and the corrections are assumed to have been resolved by discussion or added/corrected. Confirming the Field Check plans allows for the geology investigation to take place in order to furnish that information to the designer for the remaining design of the bridge. This section explains the minimum of what to include for Office Check Plans (See Section 5.5 in this Manual).

17.2.1 Bridge Plan Assembly

The Office Check Plans should contain, as a minimum, a General Notes and Quantities sheet (for open span bridges), a completed Contour Map, a completed Construction Layout (with geology information if a separate sheet is not included), and various structural detail sheets depending on the complexity of the bridge(s) as well as the many standard drawings necessary for a KDOT let project. Office Check Plans should be approximately 95-99% complete. The bridge has been designed and detailed, foundations types, sizes and lengths (depths) have been calculated and detailed, berm slopes are finalized for size and grade, and the final type, size and thickness of any protection measures have also been detailed. If the project necessitates any temporary structures, these structures are also fully designed and detailed at the time the Office Check plans are submitted.

17.2.1.1 General Notes

This sheet will incorporate standard notes into the project as the first sheet concerning bridge length structures. All standard notes are available from KDOT's website.

"Plan Review Summary Information" (Appendix) is a reference to typical notes used when different types of work will be encountered. This is not an exhaustive list as requirements are removed, updated and added frequently. However, the reference does provide the designer with a rough framework to find most of the required notes.

Many of the standard KDOT notes contain language referencing "KDOT," "State," "State Bridge Office," or similar entities. Some of these references need to remain as in the case of "…refer to KDOT Specifications…" however, when the language refers to KDOT as the oversight agency, or as the owner, these terms need to be modified to reflect the world of Local Projects. In a general sense the terms can be modified to "Owner" or "Owner's Engineer," but the designer will need to approach each note modification with a critical eye to assure the correct terms are modified and the note maintains the original intent.

Example:

FALSEWORK INSPECTION: This project has falsework plan requirements which are considered "Category 2" by KDOT specifications. If falsework deficiencies or variations from the approved and sealed plans are found, the falsework design Engineer of Record will provide written approval of the changes. If for the convenience of the Contractor the falsework becomes "Category 1" by the use of non-typical supports; then the inspection and review requirement of "Category 1" will be fully enforced, but at no cost to **the State**. "Category 2" falsework inspection is not paid for directly, but is subsidiary to other bid items.

The Bridge Deck Finishing and Bridge Deck Curing notes below may be used on LPA bridge projects if the following conditions are met:

- The bridge is a KDOT standard Reinforced Concrete Haunch Slab (RCSH) without an overlay.
- The bridge is located on a road with a functional classification of "Local" or "Minor Collector".
- The bridge is on a low volume road with 400 ADT or less.
- The bridge is not on a road with an asphalt or concrete surface.
- The bridge and road surfaces will not receive deicing materials.

BRIDGE DECK FINISHING: Give the surface a suitable texture by transverse grooving perpendicular to the center line of the bridge with a tining float having a single row of fins. Make the grooving approximately 3/16 inch in width at ¾ inch centers, with a depth of approximately ½ inch.

BRIDGE DECK CURING: Within 15 minutes, or as soon as the surface water disappears, apply 2 coats of Type 2 white liquid membrane forming compound at a minimum rate per coat of 1 gallon per 200 square feet of concrete surface. Place the second coat at right angles to the first coat. Protect the curing membrane against marring for a minimum of 7 days. The Engineer may limit work during this 7-day period.

The "Contractor Furnished PDA" bid item used by LPA's to pay for what is normally referred to as "Test Pile" or "Test Pile Special" must be accompanied by the following note. Also, the project specific special provision titled: "Contractor Furnished Pile Driving Analyzer (PDA)" should be included in with the letting document packet.

CONTRACTOR FURNISHED PDA: Use the Pile Driving Analyzer equipment at the locations shown on the Construction Layout. Use Pile Driving Analyzer equipment and methods compliant with KDOT Special Provision. The piling shall remain in place as permanent piling. Drive the piling to the resistance value of (Strength I divided by Phi).

At any location where problems are experienced, pile damage is suspected, or the Pile Driving Formula Load occurs significantly above the design pile tip elevation, the Owner's designated Engineer may request that the Pile Driving Analyzer (PDA) equipment be used.

17.2.1.2 Quantities

This sheet will incorporate standard bid items into the project as the first or second sheet concerning bridge length structures. All standard bid items are available from KDOT's website.

17.2.1.3 <u>Contour Map</u>

Review the requirements within the Field Check section for the Contour Map. Any missing or unknown information at the time of Field Check should now be on the sheet. Particularly, salvage information and any critical path items should now be known and notes placed on the sheet.

17.2.1.4 <u>Construction Layout</u>

The information from the final HAC will be transferred onto this sheet in the appropriate note. The final HAC is required to consist of revisions to the preliminary HAC and include potential scour information. This is generally the same information necessary for Item 113 data. Item 113 is required for all bridges on the local system, it is suggested to perform the necessary calculations (or perform the electronic model analysis for scour) and enter the data on the HAC so the data is available for the Item 113 Justification form.

Kansas Department of Transportation, Design Manual Volume I (Part C), Road Section, Elements of Drainage & Culvert Design, December 2016 Edition, Table 10.4-1 gives the Guidelines for Design Recurrence Interval (http://kart.ksdot.org/Download/DownloadDetail.aspx?FileID=230) then states the following:

"These guidelines should be applied to the extent practicable for new and existing highway drainage structures. On highway reconstruction or replacement projects, where existing facilities and right-of-way often dictate highway profiles, it may not be feasible to meet these guidelines. In such cases, the designer should endeavor to provide the highest degree of protection that is cost-effective under the existing circumstances. Federal, state, or local floodplain ordinances requiring a greater degree of protection may take precedence over these guidelines."

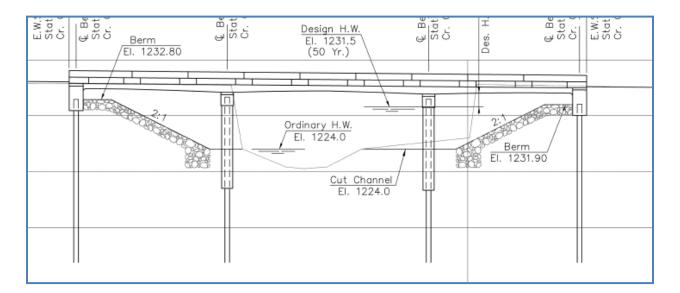
Additionally, the KDOT Bridge Design Manual states:

"...the true design frequency is the frequency flow which overtops the roadway and puts it out of service, or it is the frequency which satisfies the requirements of the allowable water surface elevations."

In a sag vertical alignment where there is no overflow area, the design frequency will be equal to the frequency that will still provide the freeboard decided upon at the field check meeting. Where an overflow area is provided, the design frequency is the frequency that takes the bridge out of full service, or simply at the frequency the road overtops. However, if a Q25 design is all that is necessary for the classification from Table 10.4-1, and Q25 does not overtop the road or even approach the required freeboard, the designer does not typically need to calculate larger frequency intervals unless it is required by other specifications/agencies.

This sheet will now show the location of all Pile Driving Analyzer (PDA) Pile, both in the Plan View and Elevation View. All pile will be labeled, number and length, at each substructure in the Elevation View. PDA Pile must be called out separately due to the additional ten foot of pile length required to perform the PDA test.

Berm slopes are typically 2:1. The slope may be slightly adjusted as needed for the site conditions and soil conditions. Some type of slope protection is common either along the drip lines of the bridge, or protecting the entire slope to prevent erosion from stream flows. The information needed to decide the thickness and size of the slope protection will have been provided from the hydraulics analysis and the geology report for soil types. For stream crossings, typically the bottom of the toe of the slope protection will need to be above the ordinary high-water elevation. If the slope protection is carried down to the streambed at a 2:1 slope, this necessitates longer bridges, and creates a lower "channel" on either side of the real streambed. Creating two ditches of slope protection on either side of the streambed elevation is not an acceptable practice from a design standpoint, or an environmental agency standpoint. Below is an example of bridge berms with slope protection and a special toe. The toe does pierce below the Ordinary High-Water elevation, but the rock is located well removed from the streambed and is "protected" by a fair amount of in-situ streambed material. This design keeps the stream within the natural stream channel during normal flows, and during higher frequency events the berms are protected from erosion. The existing banks are cut horizontal at the OHW elevation and the design does not create "ditches" on both sides of the streambed during normal flows. A designer could also make the decision to protect the horizontal cut to the edge of the natural channel to incorporate some scour protection around the piers, but all riprap would still be above the OHW elevation which is much more acceptable from an environmental agency viewpoint.



For grade separation bridges, the berm slopes will be protected as determined by analysis and any open ditches which convey drainage through the bridge will need to be maintained with the ditch bottoms receiving a minimum of a two-foot thick riprap lining.

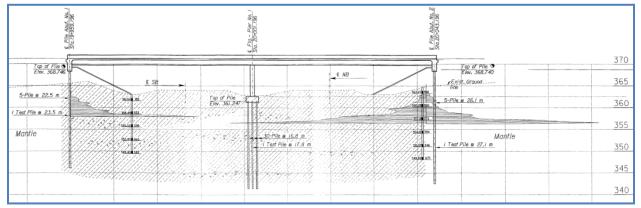
Minimum horizontal and vertical clearances, ditch widths and lane widths must be in accordance with the appropriate specifications given the type of traffic on the bridge and, if applicable, the type of traffic being spanned by the bridge. Dimension required clearances on the Plan and Elevation Views.

17.2.1.5 <u>Geology Sheet</u>

If a bridge is complex a separate geology sheet may be required. A typical geology sheet contains a simplified plan view with bridge dimensions, dimension and spacing of foundation elements, and the type and location of any geology investigation holes (core hole, power auger, air hammer, etc.). The simplified elevation view of the bridge typically contains only stations of the foundation elements, top of pile or shaft elevations, and the data gathered from the geology investigations, as well as the various geology layers which occur beneath the bridge laid out in a matrix of stations vs. elevations.

A probe investigation of a proposed bridge-length culvert is not recommended. If only a probe investigation is done, it must be supported with recorded geology within a reasonable distance of the project site. It is recommended every bridge-length box have a geology boring performed (with SPT testing, Cone Penetrometer, or some type of similar testing done to quantify subsurface conditions) at CL of roadway CL proposed bridge (or at a location as close as reasonably possible to CL-CL).

The Contractor Furnished PDA bid item (page 17-9) is used when driving PDA pile is desired at the site to verify the "generalized" geology information and to maximize pile resistance. In order to maximize the design capacity of the production pile versus the cost of the Contractor Furnished PDA Section 10.5.5.2.3 in the AASHTO LRFD Bridge Design Specifications should be considered. Again, the location of the PDA pile must be designated on the plan view (and elevation view) on the Construction Layout sheet and restated on the separate Geology sheet, if applicable.



17.2.1.6 <u>Typical Section</u>

More complex girders, bar patterns, or bridge geometry can lead to several "typical" sections. For example, if a bridge transitions from a full-super to a normal cross-section across the length of the bridge a typical section would need to be shown at the station of "full super", at the station to start the super-transition, at the station the super reaches +1.6%, +1.6%, the station where 1.6%-0.0% is achieved, and where the normal cross-section (1.6%, -1.6%) occurs. If a site necessitates odd span arrangements the bar patterns may be different across the changing span lengths, so the typical section would need to address these types of changes in some fashion.

For a more common alignment, or more simplistic bridges, the typical section at field check displays macro dimensions of major superstructure elements. In the Office Check plans, the typical section will show a greater amount of detail for superstructure components. Longitudinal reinforcement size and spacing at mid-span and at supports, transverse reinforcement, clearance dimensions, cover dimensions, location of drip grooves, rail dimensions and various other details will be displayed on this sheet as well as the macro dimensions of the major elements.

17.2.1.7 Framing Plan

For span bridges incorporating steel/concrete girders or beams, a framing plan is required. The framing plan is a layout of the entire skeleton of the superstructure which shows permanent and temporary diaphragms to be used during erection, labels of each girder/beam, bearing locations, and bearing stiffener desired locations after erection of the girders/beams. Several elevation views and section views at supports/bearings to aid in girder/beam erection process are useful for construction inspectors to verify the final conditions are as the designer intended.

17.2.2 Scour Vulnerability

Any new bridge constructed requires an Item 113 Justification Form. For open span bridges and culverts without floors, this form is to be completed by the engineer responsible for the bridge design. NBI Item 113 is used to identify the current status of a bridge regarding its vulnerability to scour.

A scour assessment of the bridge site needs to be carried out for all open span bridges and culverts without floors that are founded in erodible material. Shallow footings keyed into rock would not need an analysis carried out. However, for every bridge type an Item 113 Justification Form needs to be completed. See the appendix for Item 113 Justification Form an example. The Item 113 Justification Form is available for download on the KDOT Authentication & Resource Tracking (KART) website under "Local Projects Bridge Inspection Docs and Forms".

17.2.3 Load Ratings

Load Ratings must be calculated for any new bridge using both Load Factor Rating (LFR) and Load and Resistance Factor Rating (LRFR) methods. Since October 1, 2010, all bridges designed using Load Resistance Factor Design (LRFD) are required to be load rated using LRFR. The engineer responsible for the bridge design shall follow current AASHTO Manual for Bridge Evaluation (MBE) specifications for all required limit states, load factors and resistance factors.

Currently both Load Factor Rating (LFR) and Load and Resistance Factor Rating (LRFR) methods are to be used to load rate a bridge. Both load rating methods should include an Inventory Rating (IR) and an Operating Rating (OR) for:

- The Design Truck (HS-20 for LFR, HL-93 for LRFR),
- The Notional Rating Load (NRL) truck,
- Each of the Special Haul Vehicles (SU4, SU5, SU6, SU7) if the NRL truck OR<1.0,

- All AAASHTO legal rating trucks (T3, T3S2, T3-3) if the Design Truck OR<1.0,
- Emergency Vehicles (EV2, EV3) if the bridge is within one drive-mile of interstate access.

The Inventory and Operating load ratings for the standard LRFD and LFD trucks must be entered into a standard load rating table and placed in the plans (typically on the General Notes sheet).

Truck	Rating Level	Inventory	Operating
HS-20	(367)	1.36	2.87
	Dalina 17	th Edillor	AASHTO
2002 LFD			
2002 LFD HL-93 Loc		1.57	2.04

For all new bridges the Load Rating Summary Sheet (LRSS) needs both an LRFR and LFR rating reported. A LRSS is required to be completed for all the required rating trucks. The LRSS shall be sealed and signed by the Professional Engineer licensed in Kansas with the overall responsibility for analysis of the bridge and the final load rating. The LRSS shall be placed in the bridge record maintained by the LPA and uploaded to the bridge record in the KDOT Bridge Inspection Portal. The LRSS is available for download on the KDOT Authentication & Resource Tracking (KART) website under "Local Projects Bridge Inspection Docs and Forms".

The design plans, Rating Model, and LRSS should be modified with regard to the construction of the bridge to account for any construction modifications or errors. One example of a construction modification which would be necessary to document on the "As-built" plans would be if bearing for all steel pile was achieved 4-5 feet above or below anticipated pile tip elevations. Another would be if the inspector inadvertently used the wrong bearing values to drive to during the pile driving operation and all pile were driven to a bearing 10-15% less than what was specified on the plans. These are small bits of information which could be vital in the future for a bridge widening, or an analysis of the bridge in terms of scour.

17.3 Final Check

Plans for the Final Check submittal shall be complete. All suggestions need to have been addressed in some form by the time Final Plans are submitted. All comments which have been made by BLP on previous submittals are made to improve the plans by suggesting or requiring changes. Suggestions and comments by BLP do not override design decisions made by the designer or the owner. The designer's or owner's choice to disregard BLP markups needs to be approved prior to subsequent plan submittal. The designer needs to communicate the reasoning behind dismissing a markup.

As major portions of the plans are reviewed, the reviewer will often focus on suggested corrections, or newly added details or sheets. As the plans progress, if a detail has been reviewed and is in no need of modifying, that detail typically receives only a cursory review on successive submittals. The designer should not change details after Office Check submittal without drawing attention about those changes to the reviewer by explaining the modification, addition, or deletion to the project manager. An email should be sent to the reviewer highlighting the modifications to the plan sheets.

Minor corrections, quantity modifications, erosion control items, or perhaps incorrect details which may have been missed during previous reviews will likely be the only changes left to be made to final check plans. The PS&E plan submittal will be inclusive of all the noted changes from the previous review. For information see Section 9.0 PS&E in this Manual.

<u>Appendix A – Index of Items</u>

Geotechnical Bridge Foundation Investigation Practice

Geology Report Information

Typical Geology Report Foundation Recommendations

Item 113 Justification Form (Open-Span Bridge Example)

Load Rating Summary Sheet

Geotechnical Bridge Foundation Investigation Practice

The procedures employed in any subsurface exploration program are dependent upon a variety of factors which vary from site to site. The project design objectives and the expected site conditions have a major influence on the subsurface exploration and the development of a drilling plan. The objectives of a drilling plan should be to adequately characterize the subsurface conditions at the site so: a) The Designer can analyze the conditions to formulate a cost-effective solution, and b) The Contractor can, in conjunction with any necessary site investigation, prepare a bid which will reflect the work anticipated based on the conditions to be encountered. A secondary objective is to obtain maximum subsurface information from a minimum number of exploratory borings.

The following is a list of requirements for a foundation investigation for State or Federally funded bridge projects developed for funding through the Kansas Department of Transportation.

- 1. Perform a site-specific investigation for all Span Bridge, or Bridge-size Box projects.
- 2. Make one boring at the centerline of each pier bent and abutment for a bridge or center of structure for RCB/RFB. A probe investigation may be carried out for bridge size boxes if additional geology investigations have been done in the surrounding area of the proposed structure to support this substandard practice. Additional borings should be made as necessary to develop a continuous soils and geology profile through the structure area including the bottom of the channel. When the drilling plan can be supplemented with additional information, one boring at the centerline of each abutment may be considered to meet the minimum requirement. The supplemental information should be considered only if it is documented and directly supports an accurate soils and geology profile. When rock is encountered at a span structure, a MINIMUM of at least one of the required borings will obtain a core of the bedrock. An unconfined compression test should be taken at each change in lithology and at a minimum of every 5 feet of depth. Borings should be advanced at least 5 feet below the recommended foundation element elevations.

(Taking advantage of a substandard "probe" investigation at the site for a proposed bridge-size box will not account for the characteristics of the subsurface material(s). The probe may indicate the presence of rock within the immediate reach of the streambed, but this information may be a false negative, or a false positive. Also, it is not only rock which can cause issues for bridge-size boxes. Soils incapable of supporting load may be present a couple feet below streambed. Utilizing a probe investigation for a proposed structure may result in the wrong type of structure (RCB instead of RFB) being selected for design, it may result in large change orders submitted during construction due to stabilizing unsuitable material or removing and replacing unusable material to construct the box on or using a probe may result in building a more expensive RFB when an RCB would have performed adequately.)

- 3. When approach fill embankments of significant height are used at bridge ends founded on compressible material, make at least one boring at the critical location for each embankment location to determine potential problems associated with settlement and stability of the embankment. The borings for the embankments can usually be combined with the borings made for the abutments of the structure. Address slope stability and settlement issues in the geotechnical report.
- 4. Obtain sufficient soil and rock samples from all borings to adequately characterize the subsurface materials to a depth appropriate for the loads and the foundation system to be proposed.₍₁₎
- 5. Appropriate soil sampling should be obtained at five-foot intervals in the soil mantle on at least one of the borings where soil thickness and site conditions warrant. The standard penetration test is the minimum acceptable sampling technique.⁽²⁾ (An incomplete test (50/3", 50/6", etc.) is not an acceptable substitute for testing of material which should be cored. At any point, if there is an incomplete test a core should be taken from that elevation to the bottom of the boring. This is regardless of whether the proposed foundations will be drilled shafts or driven pile. In most cases retrieving only a five-foot core sample is not an acceptable sample.
- Field documentation of rock units present at the site are to be characterized as to stratigraphy (geologic nomenclature of each unit), lithology (basic type of material), physical condition (weathering, bedding, color, etc.) and engineering properties (jointing, strength, etc.).(3)
- 7. Perform sufficient laboratory testing to characterize all subsurface material.(4)
- 8. Information shown on the boring logs should include the following:
 - a. Depth and type of all samples obtained.
 - b. A visual and textural description of the subsurface material.
 - c. Thickness and geologic nomenclature of each stratum encountered.
 - d. A record of the Standard Penetration Test as well as any other tests that have been run.
 - e. An accurate location and top hole elevation for each boring.
 - f. Stabilized groundwater elevation.
- 9. When rock is encountered at shallow depths, make additional transverse borings.(5)
- 10. Furnish a set of office check plans by the Designer to the Geologist and/or Geotechnical Engineer for review of the items related to the geological investigation. Following the review, the plans should be returned to the Designer with any necessary comments.
- 11. Perform the Geotechnical Site Investigations under the supervision of a licensed Geologist or Geotechnical Engineer.

12. For All Foundations; State in the recommendations the Geotechnical Nominal Resistance Calculated, Geotechnical Factored Resistance, Phi factor used, and the governing factor for the design. The units for Pile Foundations should be in KIP. For Drilled Shaft Foundations the Skin Friction Resistance and End Bearing Resistance should both be in KIPS/sq. ft. resistance Spread footings should be KIPS/sq. Ft. resistance.

To provide further guidance, the following "Standard Practice" for Soil Foundation Investigations for Bridges is outlined.

If a new embankment will be placed on a soil foundation, an existing embankment will be widened or the grade elevated by 10 feet, an existing bridge shortened by the replacement structure, or if the new structure will be built on an offset alignment; perform the following for a soils foundation investigation:

- 1. If the depth to bedrock is 10 feet or more, obtain undisturbed soil samples at 5 foot intervals throughout the soils profile on at least one abutment location. If the soils (depths, types) vary between the two abutments, perform a similar sampling strategy at the second abutment.
- 2. Perform consolidation testing on each recovered sample below the water table. As a minimum, perform unconfined compression testing on each recovered sample.
- 3. Perform slope stability analysis of the proposed configuration. If the safety factors are questionable, perform more advanced strength testing.
- 4. Perform a settlement analysis including amount of settlement anticipated and the time frame for the settlement to occur.
- 5. Author an LRFD Geology report detailing findings of the investigation complete with recommendations. A sample report is in the Appendix.

Possible ASTM Standard Tests (varies by site characteristics): D1586, D2936, D 2938, D3740, D5434, D5549, D5607, D6032. This is not an exhaustive list of tests required to create a quality Geology Report for the bridge site(s), but it does cover many of the basics.

Footnotes:

- (1) Soil and rock strengths are needed for the Engineer to calculate bearing capacities for various foundation elements.
- (2) This test should be performed only in non-cohesive soils. Correlations in cohesive soils are discouraged unless considerable data exists to justify the results.
- (3) This is necessary so the Engineer knows what conditions were found in the borings and can apply his knowledge and experience with identified members to adequately perform an analysis. Further, this information allows contractors who are familiar with geologic members and know how they can be excavated to submit an accurate bid.
- (4) Laboratory testing of material obtained from borehole samples is needed for the Designer to perform an engineering analysis which is the basis for recommendations. For example, on any

foundation that relies on end bearing (e.g., a spread footing or drilled shaft), an unconfined compression test of the material on which the foundation will be bearing is considered the minimum testing that should be performed.

- (5) Bedrock encountered at shallow depths may in fact be a "floater" and not a continuous formation of rock. If the bedrock encountered is a "floater" then the amount of rock excavation will be incorrectly identified and further the geology of the site will be misrepresented.
- (6) The Engineer should know what material lies below the foundation element to ensure that the foundation element is on competent material. Therefore the boring should extend a minimum of 5' below the bottom of the proposed foundation element. It's also necessary so minor deviations in the excavation limits can be compensated without additional cost.

Geology Report Information

LRFD Geology incorporates a variety of resistance factors to arrive at a "Maximum Resistance" for drilled shaft, spread footing, or pile foundations.

The "Pile Damage" resistance factor (ϕ_c) (H-pile) of 0.6 (without pile points/tips) or 0.5 (when pile points/tips are used) is applied to calculate the maximum structural resistance of the steel pile (AASHTO 6.5.4.2). HP10x42 with an area of 12.4 sq. in. and a yield stress of 50 ksi will have a maximum structural resistance of 372 kips if pile tips are not used and 310 kips if tips are used. This is the maximum structural capacity of the steel pile.

The geologic layer also receives a bearing resistance factor (ϕ_{dyn}) ranging from 0.10 to 0.80 (AASHTO Table 10.5.5.2.3-1). 0.10 is the resistance factor to be used if the ENR formula is used without any dynamic or static testing on the piles and no field verification of hammer performance. 0.80 can be used with dynamic testing performed on 100% of production piles along with a static load test for each site condition. 0.55-0.65 is typically used if PDA testing is performed on a minimum of 2 piles (current AASHTO specification) at the site then driving criteria is established using the PDA results and the rest of the pile are driven to that criteria using the modified ENR formulas given in the KDOT Specifications. There is also a table for resistance factors (ϕ_{stat}) (AASHTO Table 10.5.5.2.3-2). One "Resistance Determination Method" titled "End Bearing in Rock – Canadian Geotech. Society, 1985" allows a resistance factor of 0.45. This value has been commonly used if no dynamic testing will be performed on site. However, when this phi has been used on projects it has often remained somewhat ambiguous whether the geologic capacity has actually been determined from this method.

Using the maximum resistance factor of 0.65 for dynamic testing, the above capacities are reduced to 242 kips and 202 kips, respectively. The factored nominal resistance for an HP 10x42 pile should not be higher than 121 tons or 101 tons in most geology reports depending on whether pile points are recommended or not. To achieve a higher phi for dynamic testing is cost-prohibitive for an LPA project.

Driving stresses are limited in steel pile to 0.9 times the yield strength of the steel. In most situations 50ksi steel is supplied for steel pile. This equates to a driving capacity of 558 kip, or 279 ton for HP10x42 pile. This does not typically limit the final capacity of the pile due to the damage factor, and bearing resistance factor, but needs to be monitored in circumstances where pile are driven through thick layers of stiff clay, or through thin layers of shale or bedrock in order to get to a layer of geology which will support the loads of the structure.

The term "practical refusal" should not appear in any geology report concerning bridge foundations. The factored nominal resistance of the foundation element should be called out. The capacity of the geologic member should be clearly stated on the borehole report/table. The engineer will specify what Strength 1 design load the foundations must support and determine the size and arrangement of the foundation

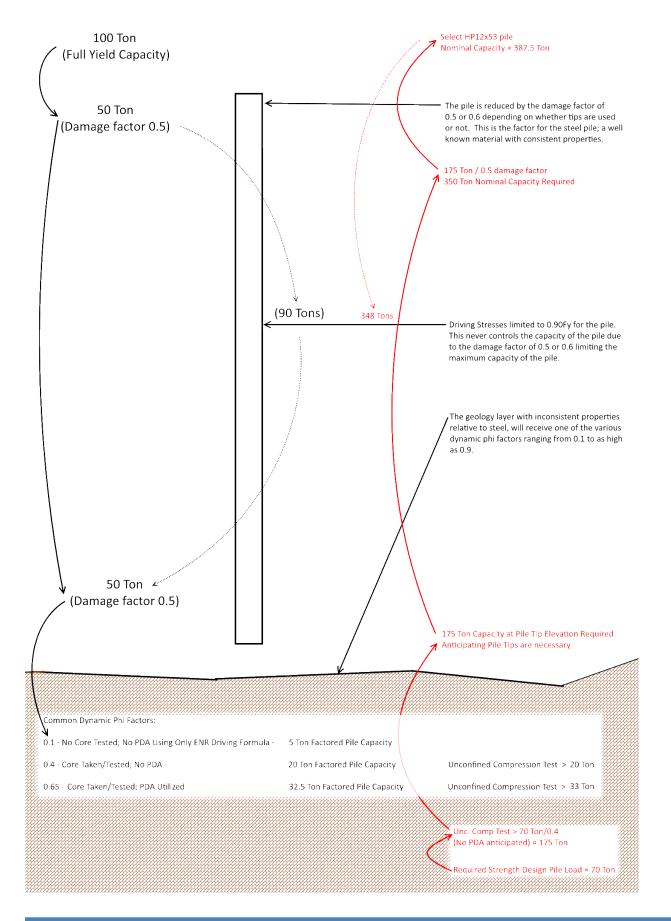
elements to use based upon the factored nominal resistance clearly labeled for various pile sizes in the report.

The example below, for use by the design engineer, will hopefully aid in both the preliminary and final design of the pile foundations. The left side (in black text) is simply an aid to display how much capacity of a fictional 100 ton capacity pile is "lost" in the LRFD design process. A pile with capacity of 100 tons is shown and this value is reduced using the different factors until the dynamic phi factor is selected in the table at the bottom. The far right values in the table would finally give what the unconfined compression test of the geology cores must be (50 Ton for both phi dynamic factors). The tons required at the pile tip determine what the unconfined compression must be for the geology layer, and then the phi dynamic reduces the amount of that geologic capacity the engineer may use. The structure Strength 1 loads must be less than 20 Ton, or 32.5 Ton, depending on the phi dynamic factor used.

The design method, in red, begins at the bottom with the known Strength 1 factored load of 70 ton. The example project is anticipated to have a quality geology investigation performed, but it is not anticipated to have Contractor Furnished PDA performed. Given those two criteria, it is determined to assign a dynamic phi of 0.4 for the pile design. An unconfined compression test of 175 ton is required. Once the geologic capacity is determined, the structural design of the pile must be carried out.

It has been anticipated pile tips or pile points will be used on the project. A damage factor of 0.5 is specified by AASHTO. Ultimately the 175 Ton geologic capacity is divided by the 0.5 damage factor to arrive at a 350 Ton nominal pile capacity. An HP12x53 pile is selected with a nominal capacity of 387.5 Ton. In this case the driving stresses of 0.9*Fy*As will be 348 Tons; this value must not be exceeded during the pile driving procedure.

The diagram referred to above is located on the next page.



Typical Geology Report Foundation Recommendations

Abutment and Pier Foundations

We recommend pile foundations for the abutments and piers for these bridges. Elevations are given for 10x42, 12x53, and 12x74 H-piling. The pile will penetrate the mantle and achieve the required resistance within the underlying weathered shale and sandstone of the Stranger Formation. The designed resistance is governed by the drivability of the pile. A Phi factor of 0.60 is given based on the geologic investigation performed and knowledge of the site.

The following table gives the top of bedrock elevation for the Stranger Formation and the maximum anticipated pile tip elevation at each abutment and pier. If piling achieves bearing at a higher elevation, further driving should cease to avoid damage to the pile. Caution must be exercised not to overdrive the piling resulting in damage to the H-pile

			H Pile	H Pile	H Pile
Location	Centerline Station	Bedrock Elevation	HP 10x42	HP 12x53	HP 12x74
			Elevation	Elevation	Elevation
Abutment 1	700+93.67	765.4	760.4	760.4	760.4
Pier 1	701+41.27	769.8	764.8	764.8	764.8
Pier 2	702+04.75	764.0	759.0	759.0	759.0
Abutment 2	702+52.35	765.2	760.2	760.2	760.2

Road Over Unnamed Creek (D) Br. No. 000000000000001

Road Over Unnamed Creek (D) Br. No. 000000000000001

			H Pile	H Pile	H Pile
Location	Centerline Station	Bedrock Elevation	HP 10x42	HP 12x53	HP 12x74
			Elevation	Elevation	Elevation
Abutment 1	701+05	765.4	762.0	761.0	760.0
Pier 1 701+47		764.8	761.5	760.5	759.5
Pier 2	702+03	763.8	762.0	761.0	760.0
Abutment 2	702+45	764.0	762.2	761.2	760.2

LRFD Design

Resistance and Phi Factor Information (damage factor of 0.6 already applied to arrive at Rn)

	Pile	Pile	Pile
	HP 10x42	HP-12x53	HP-12x74
Rn (kips)	372	465	654
Rr (kips)	223	279	392.4
Phi Factor	0.60	0.60	0.60

Item 113 Justification Form (Open-Span Bridge Example)

Item 113 Justification Form | Bridge Owner

Structure Information

NB Structure Number	415350333233007	Owner	City of Towanda		
County Structure Name	Bridge 25	Year Constructed	2016		
POA Required?	YES/NO	Feature Intersected	Blue Creek		
Date Delivered		Facility Carried	Jersey Street		
Date Delivered		Location	0.05 mi. N of K-10		
Critical Inspection Finding	g? YES/NO 🗸				
Date Delivered	11-15-2017	Not pood	ad for an open-span bridge		

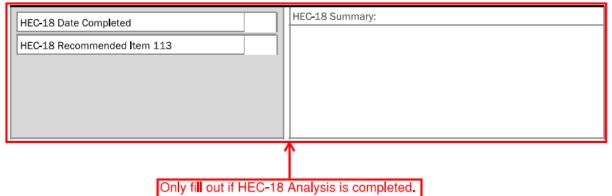
Not needed for an open-span bridge

Summary of Scour Analysis

A	Abutment Scour Recommended Item 113							
R	Rock Scour Recommended Item 113							
	Long Term Degradation (ft)							
	Contraction / Pressure Flow Scour Depth (ft)	6.5						
	Pier Scour Depth (ft) Total Assessed Scour Depth (ft) Pier Foundation Depth (ft)							
	Distance from Foundation to Channel Bed (ft)							
С	Corresponding Item 113 Code							
E	Extensive Scour Observed?							

_	
I	Current Item 61 Rating –
I	Current Item 62 Rating -
I	Extensive Secur Observed
I	Comments:
	Geotechnical inference indicates shale would be resistant to scour unless highly weathered. Downstream channel cutoffs increase likelihood of bed degradation, but bridge does not have a history of scour.

HEC-18 Scour Analysis Results



Final Recommended Item 113 Code

- 5

Load Rating Summary Sheet

Dap	Cans entraces of Trai	Sas	I	Load F	Ratin	g Sumn	nary Sł	neet fo	or Loc	al Brio	dges		Local Bridge Ratin
	NBI Bi	ridge # :							Inspection Key :			ADT :	51
LPA Bridge ID : Route Carried :		22-CC.8		-	County			ar Built :	1952		ADTT :	0	
		RS 415 20-C	C.8 over Lo	ocust Cre	ek			econst. :	-		f'c:	3.375 ksi	
	NDI	ltem 43	201 RISC		Struct	ure Type R	einforced C	-	n Load :	H-1 tin Slah, C		f _y :	40.0 ksi
				_								_	
Rati	ng Informat				lans	🗆 Fie	ld Measure			Testing			ormation Exists
										oad Rating Information: Overburden Type : None		Conditio	on Ratings:
	ASR Versio		2002 AASHT	O Std Spa					den Type : den (in.) :	None N/A		Suport	Deck: 6 ructure: 7
	LRFR Versio		2002 AASHT 2017 AASHT						lav Type :	None			ructure: 6
	MBE Versie		MBE 3rd Edi						rlay (in.) :	N/A			Culvert: N
							Cul	vert Fill He		N/A		(Channel: 6
Met	hod Used:			LFR or	ASR			LRF	R		Lo	ad Rating Eva	luation Summary :
	LFR		A ₁ :	1.3			YLLINV :	1.75	γ _c :	1		-	ated in load rating)
			A _{2 INV} :	2.17	A _{2 OP} :	1.3	YLL OP :	1.35	γ _s :	1	+M	Girder/Beam	🗌 Int 🔲 Ext
	Truck	Tons	RFINV	Tons _{INV}	RFOP	Tons _{OP}		RFINV	RFOP		-M	Girder/Beam	🗌 Int 🔲 Ext
ign	HL-93							0.370	0.480		▼.	M Slab	🗹 +M Slab
Design	HS20-44	36	0.562	20.2	0.938	33.7						Culvert Walls	5
							Yu	Tons _{INV}	RFOP	Tons _{op}		Shear at/nea	
	T3	25	0.715	17.8	1.194	29.8	1.3	15.6	0.840	21.0		Truss Membe	ers
	T3S2	36	0.784	28.2	1.309	47.1	1.3	25.1	0.943	33.9		Floor Beams	
50	T3-3	40	0.968	38.7	1.617	64.6	1.3	32.3	1.092	43.6		Stringers	
AASHTO Load Rating	SU4	27	0.614	16.5	1.025	27.6	1.3	14.7	0.737	19.8		Pins	
ad F	SU5	31	0.576	17.8	0.962	29.8	1.3	15.3	0.666	20.6		Hangers Fatigue Dren	o Dotoilo
DLc	SU6	34.75	0.523	18.1	0.873	30.3	1.3	15.4	0.601	20.8		Fatigue Pron Deck Overha	
ASHT	SU7 NRL	38.75 40	0.492	19.0 18.8	0.822	31.8 31.5	1.3	16 15.8	0.558	21.6 21.3		Deck betwee	*
۷	EV2	28.75	0.955	27.4	1.595	45.8	1.3	19.6	0.923	26.5			(NBI Item 60 < 4)
	EV3	43	0.622	26.7	1.039	44.6	1.3	19.7	0.620	26.6	· · ·	Jubbli ucture	(110) 110 110 1 1
		Opera	ting Ratings	Only. This	serves a	s the maxim	um posting	load for th	e LPA. (On	ly necessary t	to fill out i	if Posting is REQU	JIRED)
Ma	ximum (Op	operating)			5	standard Pos	ting (R12-5,	MUTCD)				Single Pos	ting (R12-1, MUTCD
IVIA	Rating		Truck			Truck			Truck			Truck	
	-		Load:		tons	Load:		tons Load:			tons	Load:	tons
			0 (Relationsh		÷	-	-	.oad) :			<u> </u>	I to or above I	÷
Add	itional Con	nments (ir	nclude any sectio	on loss, assun	nptions, ha	nd calc. referen	ces, etc.)				Contro	0	al Element for Desig
													HS20-44)
AAS	ITOWare Br	R Version	6.8.2 model w	as used to	generate	this load ratin	g. The mode	l is availabl	e from KDC	OT BLP for	Deinter		I Slab
			n for future lo		-		-				Printeo	d Name (P.E.): John :	Smith
new	load rating	or if the B	rR model is mo	odified.							Lie		2345
											LIC.		ed in Kansas
													& Date
												P.E. Sta	mp Here
	ondition. The		are) based on a the lues are the maxir									Company : Analyst :	HNTB JMB

18.0 Federal Fund Exchange

18.1 Introduction

The federal fund exchange program is a voluntary program which allows a LPA to trade all or a portion of its annual federal obligation authority with KDOT in exchange for state transportation dollars. The LPA may also elect to exchange the annual federal obligation authority with another LPA in exchange for their local funds.

Under this program, the LPA may utilize the funds in a project following its own procedures, criteria, and standards. All work performed shall be consistent with the Kansas Statutes, applicable regulations, and engineering practices appropriate to the work conducted. Any work performed on the state right of way, including the state highway or city connecting link, will require coordination with the local KDOT Area Office.

18.2 Eligible Participants

Only LPAs that are eligible to receive a federal funding allocation may participate in the federal fund exchange program. Eligible LPAs include all counties in the state and cities with population greater than 5,000 that are not located in a Transportation Management Area (TMA). Currently, the only TMAs in Kansas are the Mid America Regional Council (MARC – Kansas City Region) and the Wichita Area Metropolitan Planning Organization (WAMPO).

Participation in the program is optional. An eligible LPA may choose to exchange its federal funds or it may use the funds to develop a federal-aid project following established procedures.

18.3 Available Funds

KDOT will determine the amount of state funds available for exchange annually at the time federal funding is confirmed for a federal fiscal year (FFY). KDOT may conduct more frequent reviews of available funding when necessary because of funding or budgetary considerations. Around the beginning of each new FFY, BLP will notify the LPAs in writing of the amount eligible for exchange that FFY. The method for distribution of federal funds is described below in *Section 18.5*.

18.4 Exchange Rate

The exchange rate for the program for FFY 2018 is \$0.75 of state funds for every \$1.00 of local federal obligation authority exchanged. The exchange rate will be determined by the Secretary of Transportation on an annual basis.

18.5 Federal Fund Distribution

A portion of the STP dollars that are made available to the State of Kansas are shared with LPAs. The funds are distributed to cities and counties based on federal law, state statute, or the policy of KDOT. Following is a summary of the methods of distribution of the federal funds.

18.5.1 Counties

STP funds are allocated to each of the counties in the state in accordance with KSA 68-402b, which provides for the distribution to be in the same proportion as the total gross amount of moneys received by each county from the Special City and County Highway Fund and the County Equalization and Adjustment Fund in the preceding calendar year prior to distribution of any such moneys bears to the total amount of moneys received by all counties from such fund in such year.

18.5.2 Small Urban (Cities not in a TMA with population greater than 5,000)

STP funds allocated to small urban cities are distributed to each city in proportion to its population relative to the total population of all eligible cities.

18.6 Allowable Uses of State Funds

The project scopes for which state funds may be used is much broader than the use for federal funds. Below are a few examples for which the exchanged state dollars may be used. For projects not listed below, the LPA must contact BLP for guidance.

18.6.1 Project Types

Although the scope for which state funds may be used is much broader, the LPA is required to use these exchanged funds for specific types of road or bridge improvement projects.

Acceptable project scopes include but are not limited to the following:

- Roadway construction, reconstruction, or rehabilitation
- Pavement preservation including overlay, mill/overlay, chip and seal, pavement patching, or crack sealing

- Purchase of aggregate to be placed exclusively on a specific section(s) of public road by LPA forces
- Safety improvements including signing, traffic signals, pavement marking, removal of roadside obstacles, installation or upgrade of guardrails, or installation of turn lanes
- Installation of erosion protection measures in roadside ditches or around drainage structures
- Construction or reconstruction of sidewalks, pedestrian ramps (associated with roadway crosswalk), or pedestrian signals
- Replacement of deteriorated curb and gutter
- Storm sewer repairs to restore or enhance positive drainage
- Bridge construction or replacement
- Bridge rehabilitation or repair
- Bridge painting
- Bridge removal
- Construction of low-water crossings

18.6.2 <u>Allowable Project Activities</u>

The exchanged funds may be used for all phases of a project. These include, but are not limited to:

- Preliminary engineering
- Right-of-way acquisition
- Utility relocations
- Construction
- Construction inspection

18.6.3 Using LPA's Forces

When work is performed by the LPA's forces, the reasonable and approved cost of labor, equipment, material and supplies are eligible for reimbursement. No reimbursement shall be made for costs of mobilization, depreciation, profit or overhead.

The LPA may be required to provide detailed work records documenting the actual costs incurred for labor and equipment provided by the LPA. Reimbursable equipment rates used by the LPA shall not exceed the KDOT equipment rates compiled periodically by KDOT's BOCM unless approved prior to construction.

18.7 Exchange Process

The exchange process is a simple three step process involving:

- Request to Exchange Federal Funds
- Fund Exchange Agreement
- Request for Reimbursement

18.7.1 Request to Exchange Agreement

An LPA that wishes to exchange its federal funds will submit to BLP a <u>Request to Exchange Federal Funds</u> form outlining the amount of federal funds the LPA wants to exchange, and providing the contact information for the person designated to be the main contact for the LPA.

18.7.2 Fund Exchange Agreement

Upon approval of a <u>Request to Exchange Federal Funds</u>, KDOT and the LPA will enter into an agreement for the exchange of funds. This agreement will outline the amount of federal obligation authority to be transferred to KDOT, the amount of state funds to be provided to the LPA, the method of payment of the state funds to the LPA, any limitations that may apply to the use of these funds, and the specific responsibilities of each party.

18.7.3 Request for Reimbursement

State fund exchange dollars will be paid to the LPA on a reimbursement basis up to the maximum amount specified in the agreement. The LPA will need to submit to BLP a <u>Federal Fund Exchange Request for</u> <u>Reimbursement (KDOT Form 1318)</u>. The Fund Exchange Agreement will set forth the request for reimbursement process. A request for reimbursement may be submitted at the completion of the project or progress payments may be made during the development and construction of the project and as the LPA expends dollars. Project costs that exceed the maximum dollar amount specified in the agreement will be the responsibility of the LPA.

All Request to Exchange and Request for Reimbursement forms must be received by KDOT no later than September 15 of each year. Any funds not requested by September 15 will be lost to the LPA.

18.8 Final Review

Upon completion of the project, the LPA will notify BLP. BLP staff may perform a final review of the project to confirm compliance with the terms of the agreement.

19.0 High Risk Rural Roads (HRRR) Program

19.1 Introduction

The HRRR program is a portion of the Highway Safety Improvement Program (HSIP). The HSIP is a core Federal-aid program with the purpose to achieve a significant reduction in traffic fatalities and serious injuries on all public roads, including non-State-owned roads and roads on tribal land. The HSIP requires a data-driven, strategic approach to improving highway safety on all public roads with a focus on performance. The HRRR program is focused on any rural major or minor collector or a rural local road with significant safety risks. Funds available will be used on projects targeted to improve safety through a variety of projects and programs.

19.2 Project Application

19.2.1 Eligibility

All Counties are eligible for safety improvement projects. Eligible roadways include rural major collectors, rural minor collectors, and rural local roads. Proposed site-specific projects **must be supported by crash data**. Crash data is not required for systemic improvements, but the proposed improvement should align with the goals of the <u>KDOT Strategic Highway Safety Plan</u>.

19.2.2 Project Identification

Upon receipt of the call for projects from BLP, County officials may submit an Application and a <u>Request for</u> <u>Construction Project (Form 1302)</u> to BLP for consideration for an HRRR project on an eligible roadway.

19.2.3 Project Limitations

Federal participation in the cost of projects will be 90 percent for most safety projects; projects which are focused on signing, pavement markings, or rumble strips are eligible to be funded at 100 percent of participating costs.

19.2.4 Participating Phases

FHWA will participate in at least a portion of the cost of construction and construction engineering on all selected projects. If requested, funding for preliminary engineering will also be considered. Counties will be responsible for any costs associated with right of way acquisition or utility adjustments.

19.2.5 Application Procedure and Requirements

As a part of the call for projects, required forms will be included in the call for projects notification. Prior to the submission of applications, Counties are encouraged to review the proposed projects with the KDOT District or Area Engineer. The application package should be submitted electronically by or before the application deadline.

19.3 Project Selection and Programming

A committee comprised of individuals from BLP and other appropriate groups (such as the Kansas Association of Counties) will review and discuss the applications and selections, if any, will be made. Each County that applies will receive notification stating whether their project has been selected. Refer to *Section 2.0 Programing* of this Manual for programming information and procedures.

19.4 Project Responsibilities

19.4.1 KDOT

BLP is responsible for project development oversight and coordination with the Counties including plan review and preparation of agreements. Projects will be let to contract by KDOT.

The Director of the Division of Operations is responsible for the final acceptance of the construction activities.

19.4.2 County

Counties participating in the HRRR program will be responsible for plan preparation, either by their own engineering staff or a consultant. Counties that hire consulting firms for professional services are responsible for ensuring that the firm is aware and familiar with the guidelines and all related correspondence as needed throughout the Project. The County/Consultant is solely responsible for the development and accuracy of the plans, specifications and estimating for the project.

Upon receipt of the County/State Agreement, sign and seal two original copies of the County/State Agreement and return them to BLP for execution. After the Agreement is fully executed, BLP will transmit a copy to the County for its records.

The County is responsible for the storage and archival of all HRRR project plans, files, and contract documents.

19.5 Project Development

Project development will be coordinated through the assigned PM. See other sections of this Manual for Project Development requirements, especially *Section 5.0 Plan Production* of this Manual.

19.6 Other Safety Programs

19.6.1 Safety Circuit Rider

The Safety Circuit Rider program is designed to provide safety-related information, training, and support to LPAs. This onsite support is intended to identify safety needs on local roads; help determine countermeasures; and provide a reasonable level of assistance as needed in implementation of improvements including directing LPAs to possible sources of funding for improvements, though low-cost improvements are the primary focus.

19.6.2 Local Road Safety Plans (LRSP)

Local Road Safety Plans are intended to build on the foundation established by the State Highway Safety Plan. Local Road Safety Plans provide a proactive, systematic approach to implement safety measures within local jurisdictions. A consultant will cooperate with local officials to develop a plan with the goal of increasing the overall safety for roadway users. The plan may include an analysis of crashes, safety strategies to address the crash types identified, and an implementation plan to accomplish safety enhancements.

19.6.3 Practical Road Safety Assessments (PRSA)

A PRSA is an examination of a corridor by a multidisciplinary team to identify opportunities for improvements in safety for all road users. See *Figure 19-1* for process.

19.6.4 FHWA Safety

The focus of the FHWA Safety Program is to encourage safer roadways. The FHWA Office of Safety works with Federal, State and Local partners and others in the transportation community to develop and promote programs and technologies to improve the safety performance of our Nation's roadways to reduce the number of fatalities and injuries. Check their website for more information: <u>https://safety.fhwa.dot.gov/</u>

19.6.4.1 Additional Safety Programs & Safety Proven Safety Countermeasures: Safety Edge

The Safety EdgeSM is a proven technology that shapes the edge of a paved roadway at approximately 30 degrees from the pavement cross slope during the paving process. The Safety EdgeSM is designed to eliminate tire scrubbing, a phenomenon that contributes to losing control of a vehicle. It has been successfully constructed on both asphalt and concrete pavements. The Safety EdgeSM has minimal impact on

project cost combined with the potential to improve pavement life. For more information about Safety EdgeSM, (<u>click here</u>).

In 2013 BLP purchased Safety EdgeSM shoes for Counties that had their own paving equipment and desired to use the technology. HRRR funding provides 90% of the approved equipment cost. Some Counties have expressed a desire to obtain a safety shoe for their Contractors to use on paving projects. Currently, any County desiring a Safety EdgeSM shoe for this purpose may apply by sending a request to BLP.

19.6.5 Additional Resources

<u>Manual for Selecting Safety Treatments on High Risk Rural Roads</u> – Provides information on improving safety on HRRRs including safety benefits, a cost-effectiveness comparison of safety treatments, applicability of treatment deployment, maintenance costs, and decision-making processes for selecting treatments.

<u>Implementing the High Risk Rural Roads Program</u> – Documents common challenges, noteworthy practices, and lessons learned through the first 4 years of implementation of the HRRR Program under SAFETEA-LU. While this document was published in 2010 and the HRRR Program has since been updated with MAP-21, some of the information in the report may still be of interest to States.

<u>Local and Rural Road Safety Program</u> – Provides national leadership in identifying, developing, and delivering safety programs and products to agencies, elected officials, governments, and other stakeholders to improve safety on local and rural roads.

Figure 19-1

Practical Road Safety Assessment (PRSA) Process

- Receive written request from County
- Acknowledge receipt of request
- Research location
 - o Roadway type
 - o Crashes
 - o ADT
 - o Entrances
- Determine appropriate team members
 - o FHWA: Safety Engineer
 - KDOT-District: Area Engineer
 - KDOT-BLP: Local Road Engineer for County
 - KDOT-BLP: Roadside Safety Lead
 - KDOT-BLP: PRSA Lead
 - County: Engineer/Road Supervisor/Director of Public Works (if no County Engineer, suggest that the County's engineering consultant participate)
 - County Sheriff: Officer
 - Local user: school, business, property owner
 - Adjacent County: Engineer/Road Supervisor/Director of Public Works
 - KCA: Local Road Engineer
 - LTAP: Representative (optional)
- Determine schedule for review
- Send out briefing packet with information available (and PRSA info for new members) and list of PRSA members with title and contact info
- Pre-review meeting (can be on-site before review)
- Review
 - o Prompt lists
 - Take photos
- Discuss
- Develop recommendations and prioritize
- Write report
- Send report to County
- Receive County plan of action
- Plan of action implemented

Aim of a PRSA is to answer the following questions:

- What elements of the road may present a safety concern: to what extent, to which road users, and under what circumstances?
- What opportunities exist to eliminate or mitigate identified safety concerns?
- Would this be a good candidate for an HRRR project?

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20.0 <u>City Connecting Link Improvement Program – Surface Preservation</u> (CCLIP-SP)

20.1 Introduction

The City Connecting Link Improvement Program – Surface Preservation (CCLIP-SP) is a state-funded program that provides funds to cities to address deficiencies or improve a City Connecting Link on the State Highway System. A City Connecting Link is defined as any routing of the State Highway System that is located within the corporate limits of a City. All City Connecting Links are eligible under this program except those on the Interstate System and fully controlled access sections on the Freeway System.

For more information on the entire CCLIP Program and Categories, please see Section 16.0 in this Manual.

20.2 Project Application/Selection

20.2.1 Eligibility

(Previously known as KLINK) The CCLIP-SP program is intended to address deficiencies in or extend the life of the driving surface. Project scopes may consist of overlay, mill and overlay, pavement patching, joint repair, seals, or similar surface maintenance work. Parking lanes may be included. Construction of ADA curb ramps, as required by Federal Regulation and Department of Justice guidance, will be included regardless of the funding source. Bridge improvements, curb and gutter repair or replacement, drainage improvements, construction or improvement of sidewalks beyond the ADA ramps, or geometric improvements may be included in a project but shall not be eligible for program funding.

20.2.2 <u>BLP will solicit applications for CCLIP-SP surface preservation projects for each year in</u> which funding is available. Project Identification

Upon receipt of the call for projects from BLP, City officials may present a request to BLP Projects for consideration for "CCLIP-SP" surface preservation projects on City Connecting Links. Proposals must include:

LOCATION - The project location must be described on the application form and should be illustrated on an attached map.

PROJECT COSTS - All proposed project scopes and cost estimates must meet current State design standards and accepted engineering practices for the type of improvement requested and described on the application form.

20.2.3 Project Limitations

Limitations are as follows:

- 1. The project must be on a City Connecting Link of the State Highway System.
- The CCLIP-SP Program is intended to address deficiencies of the driving surface. Project scopes may consist of surface replacement, milling, overlay, patching, joint repair, or seals. Bridge improvements, curb and gutter replacement, replacement of parking areas, drainage improvements, or geometric improvements may be included in the project but are typically nonparticipating.
- 3. The maximum of state funds per project is \$300,000.

The City is required to prepare the plans, let the contract for bids, and to supervise the construction (projects must be awarded on a competitive basis). **DO NOT PROCEED WITH PREPARATION OF PLANS AND SPECIFICATIONS UNTIL YOUR PROJECT HAS BEEN APPROVED BY KDOT**.

20.2.4 Participation

KDOT will participate in the cost of construction and construction engineering at the rates established in *Section 16.3* of this Manual.

20.2.5 Application Procedure and Requirements

Prior to the submission of applications, cities are encouraged to review the proposed projects with the KDOT District or Area Engineer. Governmental bodies within urbanized areas (populations greater than 50,000) should also submit copies of their applications to their Metropolitan Planning Organization's (MPO's).

The *City Connecting Links "CCLIP-SP" Program* application form (KDOT Form 1330) (*Figure 20.1*) must be completed in its entirety, including required attachments, and sent to BLP prior to the required deadline. The deadline is stated in the most recent BLP Memo announcing the CCLIP-SP program for a given fiscal year. Contact the BLP for the latest memo and the most current version of the application. Each City is allowed one project per fiscal year in which funding is available. If requested funds from all applications exceed available funds, projects will be prioritized based on pavement survey conditions.

NOTE: All forms for the CCLIP-SP Program can be downloaded from the BLP website located at http://www.ksdot.org/burLocalProj/default.asp.

The application package may be submitted electronically (preferred method) or on 8 ½ X 11 paper.

20.3 Project Programming/Approval

The project selections will typically be announced prior to the end of the calendar year in which the application process occurred. Each City that applies will receive notification stating whether or not their project has been selected. Refer to *Section 2.2* for programming information and procedures.

20.4 <u>Responsibilities</u>

20.4.1 KDOT

The Director of the Division of Engineering and Design and the Chief of BLP are responsible for administering the CCLIP-SP Program and recommending the project list to the Secretary for approval.

The Director of the Division of Engineering and Design is responsible for project administration following the announcement of the selected projects in the Highway Improvement Program. The Chief of BLP is responsible for project development and coordination with the cities, including plan review and coordination with the District Engineers, and preparation of agreements for all projects normally let to contract by the cities under this program.

The Director of the Division of Operations is responsible for the final acceptance of the construction activities.

BLP is responsible for the oversight of agreements for the construction of the approved CCLIP-SP projects, reviewing Request for Reimbursement documentation and making payment to the city.

20.4.2 City

Cities participating in the CCLIP-SP program will be responsible for all preliminary engineering (including plan preparation), letting a contract for construction (after it has been reviewed by BLP) and construction administration per the Project Agreement. Cities that hire consulting firms for professional services are responsible for ensuring that the firm is aware and familiar with the guidelines and all related correspondence as needed throughout the Project. The City/Consultant is solely responsible for the development and accuracy of the plans, specifications and estimating for the CCLIP-SP Project. See *Figure 20.2* for a typical CCLIP-SP Project Agreement.

Upon receipt, sign and seal two (2) original copies of the City/State Agreement and return them to BLP for execution. After the Agreement is fully executed, BLP will transmit an original copy to the City for its records. The City is responsible for providing the Consultant (if applicable) a copy of the City/State Agreement after it is executed. A City/State Agreement must be fully executed before the Project is to be let to contract, otherwise, loss of funding could occur.

After the "Authority to Award" has been issued by BLP, the City must complete a "REQUEST FOR PROJECT EXEMPTION CERTIFICATE (Department of Revenue Form PR-76)," which can be filled out electronically at the following address:

https://www.ksrevenue.org/pdf/pr76.pdf

If the City has attained "agent" status through KDOR, they must submit a copy of the document granting them "agent" status and a copy of the Form PR-76 issued by the City to the Contractor. A publication containing more information about this form and the process can be found at: <u>https://www.ksrevenue.org/pdf/pub1520.pdf</u> or you may contact the Kansas Department of Revenue (KDOR) directly at the address shown below:

> Kansas Department of Revenue (KDOR) Docking State Office Building 915 SW Harrison Street Topeka, KS 66612-1588 Website: <u>https://www.ksrevenue.org/taxindex.html</u> Email: kdor_tac@ks.gov

After the City completes the form, they need to return it to the address stated above. KDOR will assign the City an Exemption Certificate Number specific to a given CCLIP-SP Project. A copy of the document from KDOR assigning the Exemption Certificate Number must be provided to BLP prior to issuing the "Notice to Proceed."

After the Project is completed, the City shall complete the "State of Kansas Project Completion Certification" (KDOR Form PR-77), obtained from the KDOR, which certifies that all materials purchased by the Contractor were exempt from payment of sales tax. This form must be delivered to the City and kept on file for 5 years after project finalization.

The City is responsible for the storage and archival of all CCLIP-SP Project plans, files, and contract documents.

20.4.3 Participating Phases

KDOT will participate in the cost of Construction and Construction Engineering as stated in *Section 20.2.4* of this Manual. Preliminary Engineering/Design and Utility Adjustment costs are not eligible for reimbursement in the CCLIP-SP Program; however, KDOT is required by the Kansas Legislature to obtain the total actual cost incurred in all phases of the project. The City is required to report the actual costs of Preliminary Engineering/Design and Utility adjustments to KDOT on the form shown in *Figure 20.18*.

20.5 Project Development

20.5.1 Project Development and Overview

The City/Designer is encouraged to conduct a preliminary pavement investigation (i.e., taking roadbed cores, etc.) to determine the best resurfacing alternative and scope of work for the Project. This work is not participating in the CCLIP-SP Program. The City/Designer is also encouraged to seek the input of the KDOT Area Engineer in developing the scope of the project.

It is recommended that the City contact the KDOT District Construction or Maintenance Engineer to determine if KDOT will be letting any surfacing projects in the area. It may be possible that an asphalt mix type KDOT is using would be suitable for the CCLIP-SP project. If the timing of the CCLIP-SP project and the mix type could be coordinated, it could be more cost effective.

It is essential that LPAs maintain consistency with ADA in the public rights-of-way when designing public transportation projects. The guidelines noted in BLP Memo 13-15 must be adhered to utilize CCLIP-SP funding on any part of the project.

It is important to note that Temporary Traffic Control must also be consistent with ADA requirements. The City shall provide a temporary traffic control plan within the design plans, which includes the City's plan for handling multi-modal traffic during construction, including detour routes and road closings, if necessary, and installation of alternate or temporary pedestrian accessible paths to pedestrian facilities in the public Right of Way within the Project Limits. The City's temporary traffic control plan must be in conformity with the latest version of the Manual on Uniform Traffic Control Devices (MUTCD), as adopted by the Secretary, and follow the American Disabilities Act of 1990 (ADA) and its implementing regulations at 28 C.F.R. Part 35, and FHWA rules, regulations, and guidance pertaining to the same.

Traffic Control within the city during the CCLIP-SP project construction is a major concern on all CCLIP-SP Projects. Most CCLIP-SP Projects route traffic through construction and do not require a detour. **Project requests for an official detour route are to be reviewed by the KDOT District and Area Engineers and submitted to BLP at least three (3) months before the anticipated letting date to allow KDOT sufficient time for review and approval of detour signing and surfacing needs.** If the detour extends outside the city limits, the County Engineer must concur with the detour plan **in writing.** A copy of said letter of concurrence must then be submitted to KDOT's District, Area, and BLP offices.

The City/Designer will prepare "Field Check" plans to be submitted electronically to BLP for review. BLP and the Area Engineer will review plans for compliance with CCLIP-SP requirements and general conformance to KDOT plan format. The plans will be returned to the City/Designer with comments from KDOT.

The City/Designer will modify the plans as recommended by KDOT and submit Final Check plans to BLP for review. After the final check review has been completed by BLP, the City will be notified electronically that the plans are acceptable. At this time, the City will submit a Construction Cost Estimate, a proposal, and the

Final Set of plans to BLP with the title sheet sealed, signed, and dated by a Professional Engineer licensed in the state of Kansas for the Plans, Specifications, and Estimate (PS&E) process.

The City will Advertise and Let the project, administer the Construction and Construction Engineering, and request reimbursement. More details on these procedures are found later in this Section.

20.5.2 Plan Requirements

Designers may use the <u>City Connecting Link "CCLIP-SP" Program Project Recapitulation Form (KDOT Form</u> <u>1326)</u> packet or electronically formatted half-sized sheets in the CCLIP-SP Program. Additional information about electronic plan format and document transmittal procedures is available on the BLP website: <u>BLP</u> <u>Specifications for Electronic Plans Submittal</u>

Changes to the following items must be approved by BLP prior to letting:

- 1. Plan Length by more than 100 feet of the length originally approved
- 2. Project scope
- 3. Programmed fiscal year

Requests for changes to these items after the project has been let to contract shall not be permitted.

20.5.2.1 Project Categories

20.5.2.1.1 <u>Minor surfacing treatment, such a slurry seal, or Moderate surfacing treatment, such as a</u> <u>mill\overlay without pavement patching or joint repair.</u>

For these projects, the minimum requirements plan submittals are:

- <u>City Connecting Links "CCLIP-SP" Program Project Recapitulation Form (KDOT Form 1326)</u> (See Figure 20.3)
- 2. Location Map (1/4" scale)
- 3. General Notes (See *Figures 20.4* for examples of notes that might be required.)
- 4. Typical Sections (See *Figures 20.5 and 20.6* for examples.)
- 5. Pavement Markings Summary and Recap Forms (See Figures 20.7 to 20.9 for examples.)
- 6. Traffic Control Standards –Always use the latest revision of Specification 07-08001. As of this publication, the latest revision is 07-08001-R07. <u>KDOT Special Provisions for Section 800</u>
- 7. Traffic Control Summary & Recap Forms (See Figures 20.10 and 20.11 for examples)

Or,

1. Title Sheet

- 2. Typical Section-showing the width of section, type of section, and application rate.
- 3. Summary of Surfacing Quantities
- 4. Pavement Marking Plan and Quantities (inclusion of KDOT standard drawings is recommended, (See *Section 20.5.2.2*)
- 5. Traffic Control Plan (inclusion of applicable KDOT Traffic Engineering Standard Drawings is recommended, (See *Section 20.5.2.2*), KDOT Standard Drawing No. **TE710** ("TRAFFIC CONTROL SIGN INFORMATION") is recommended.
- 6. Additional plans sheets and details may be required if non-participating items are added to the project.

20.5.2.1.2 <u>Moderate surfacing treatment, such as a mill\overlay, with partial pavement patching, or</u> joint repair.

For these projects, the minimum sheets required plan submittals are:

- 1. Title Sheet
- 2. Typical Section Sheet(s)
- 3. General notes, and a construction sequence narrative, if necessary (Outline the steps the Contractor is to take while constructing the Project).
- 4. Details for partial pavement patching, etc.
- 5. Plan Sheet(s)
- 6. Summary of Surfacing Quantities
- 7. Pavement Marking Plan and Quantities (inclusion of KDOT standard drawings is recommended) (See *Section 20.5.2.2*)
- Traffic Control Plan (inclusion of applicable KDOT Traffic Engineering Standard Drawings is recommended (See Section 20.5.2.2). KDOT Standard Drawing TE710 ("TRAFFIC CONTROL SIGN INFORMATION") is recommended.
- 9. Summary of Traffic Control Quantities (use of TE795 is recommended)
- 10. Additional plans sheets and details may be required if non-participating items are added to the project.

20.5.2.1.3 Major surfacing treatment, such as full pavement patching or reconstruction.

For these projects, the minimum sheets required plan submittals are:

- 1. Title Sheet
- 2. Typical Section Sheet(s)

- 3. General Notes and Construction Sequence Narrative (Outline the steps the Contractor is to make while constructing the Project).
- 4. Details for Full Pavement Patching, etc.
- 5. Plan Sheet(s)
- 6. Summary of Surfacing Quantities
- 7. Pavement Marking Plan and Quantities (inclusion of KDOT standard drawings is recommended) (See *Section 20.5.2.2*)
- Traffic Control Plan (inclusion of applicable KDOT Traffic Engineering Standard Drawings is recommended (See Section 20.5.2.2). KDOT Standard Drawing TE710 ("TRAFFIC CONTROL SIGN INFORMATION") is recommended
- 9. Traffic Control Sequence Narrative (Outline the steps the Contractor will take in establishing and maintaining traffic control while constructing the Project).
- 10. Summary of Traffic Control Quantities (use of TE795 is recommended)
- 11. Additional plans sheets and details may be required if non-participating items are added to the project.

20.5.2.2 Plan Sheet Format for electronically formatted sheets

- 1. Title Sheet Refer to the Sample CCLIP-SP Title Sheet, see *Figures 20.20* for general format and required information to be included.
- 2. Body of plans Refer to the KDOT Road Design Manual, Chapters 4 8 for information regarding the general format for the plans and plan sheets.
- 3. Pavement Marking & Traffic Control Plans

Pavement marking details can be shown on the plan sheets, but their placement shall not conflict with standard drawings in the final design plans.

KDOT Road and Traffic Engineering standard drawings can be downloaded from the Internet at <u>http://kart.ksdot.org/</u>.

If there is room, pavement markings may be shown on the plan sheets, however, use of the plan sheets as a base for a <u>separate</u> pavement marking plan is recommended. Include Begin-End Construction notes and delineate city limits if the Project begins or ends at the city limits. **The City/Consultant is solely responsible for using and referencing the Manual on Uniform Traffic Control Devices (MUTCD) throughout the development of the plans.** The following KDOT Pavement Marking Standard drawings are recommended for inclusion in all CCLIP-SP Project final design plans. The Designer shall also adhere to the latest edition of KDOT's <u>Access Management Policy</u> when developing the final design plans for the Project.

<u>Note</u>: The following is a list of pertinent Traffic Engineering standard drawings which are *recommended* for use when KDOT Specifications are used:

TE308 Typical Pavement Marking Details for Undivided Roadways

TE309 Typical Miscellaneous Pavement Marking Detail Sheet

TE311 Summary & Recapitulation of Pavement Marking Quantities (A summary similar to **TE311** is to be completed).

When filling out the "Summary of Pavement Markings" schedule, provide pavement marking location(s) from Station_____ to Station_____.

Pavement marking bid items must be bid individually-**not by Lump Sum.** Use proper methods in computing pavement marking quantities.

Long-life pavement marking materials are recommended when the ADT is equal to or greater than 5000 vehicles per day or when the speed limit is equal to or greater than 45mph. KDOT recommends the use of epoxy pavement markings on all concrete pavements.

For <u>permanent</u> signing (non-participating), utilize the latest edition of the MUTCD.

For <u>temporary</u> signing (participating under traffic control) utilize the latest edition of the MUTCD.

Identify the following on the pavement marking and traffic control plans:

- 1. Project Stationing (label every station)
- 2. The names of city streets (crossing the State Highway along the Project) and the State Highway Route Number(s)
- 3. Railroads (if applicable).

Note: The City is responsible for ensuring that the proper railroad safety appurtenances are in place and in satisfactory working order along the Project.

- 4. Symbols (Left turn arrows, ONLY, etc.)
- 5. Listing of Bid Items, type of material used, quantity, and units)
- 6. Indicate the pavement marking location (Station to Station) type, size, and length of use (in feet) on **TE311**.

When downloading the standard drawings from <u>http://kart.ksdot.org/</u>, the standard drawings shall remain legible after manipulation through various software packages. Some software packages do not transfer all the shading, dimension lines, traffic control drums, etc., shown on KDOT's original standard drawings. KDOT standard drawings that have been revised by the City/Consultant must have the standard drawing number crossed out, i.e. TE795.

KDOT recommends the use of the following Traffic Control standard drawings:

- **TE700** Traffic Control General Notes
- **TE702** Traffic Control Channelizing Devices
- **TE704** Traffic Control Closures
- **TE710** Traffic Control Sign Information

NOTE: TWORKS signs are to be placed on all projects that contain TWORKS Funding **EXCEPT** those projects that require 30 working days or less **OR** the estimated total project costs are less than \$50,000.

TE730 Traffic Control Flagger or Pilot Car
TE732 Traffic Control Temporary Traffic Signals
TE744 Traffic Control Lane Closure on Multilane Hwy or
TE748 Traffic Control Crossover on Undivided Roadway
TE795 Summary of Devices & Recapitulation of Quantities

Do not remove the following Bid Items that are permanently indicated towards the bottom of the "Recapitulation of Quantities" table on TE standard drawing TE795:

ITEM	QUANTITY	UNIT
Traffic Control (Initial Set Up)*	Lump Sum	Lump Sum
Flagger (Set)	1	HOUR

*This may be removed if the project does not require phasing and the Traffic Control is bid as LUMP SUM.

In addition, do not remove the "W20-7a" sign with a quantity of "2" listed in the "Construction Signs*" table.

Projects that do not require phasing may be bid as Lump Sum. It is recommended that on projects that require phasing or relocation of temporary traffic control devices a Lump Sum bid not be used. This determination can be made between KDOT and the City at the field check stage.

<u>Note:</u> The bottom right-hand corner of standard drawing **TE795** shall have a note indicating that the standard drawing is **"FOR INFORMATION ONLY."**

20.5.2.2.1 Detour Routes

Detour routes are **not** normally used on CCLIP-SP Projects, as most Projects handle traffic through construction. If a detour plan is necessary, please **submit the plan to BLP no later than 3 months prior to the anticipated letting** date to allow time for review by appropriate KDOT staff. If the detour extends outside the city limits, the County Engineer must concur with the detour plan **in writing.** A copy of said letter of concurrence must then be submitted to KDOT's District, Area, and BLP offices.

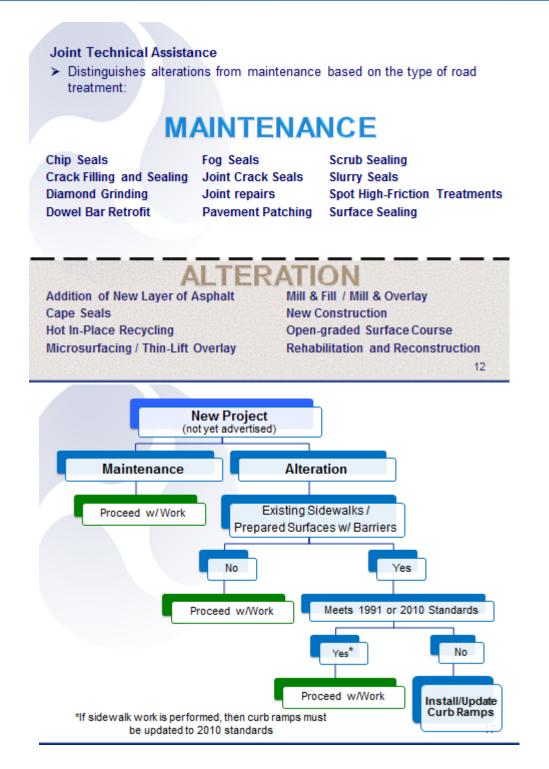
20.5.2.2.2 Traffic Signal and Crosswalk Review:

The City is responsible for making sure that all existing traffic signals and crosswalks on the city connecting link are justified and warranted. If questions arise about the condition, placement, marking, or warrant of a traffic signal or crosswalk, the City/consultant shall investigate said traffic signal or crosswalk and consult with BLP. Only existing pavement markings for existing school crossings or crosswalks along the connecting link may be replaced in their previous location without preapproval from KDOT.

By Federal Regulation as stated in 28 CFR 35.151(i): Altered streets, roads, and highways must contain curb ramps where there are curbs or other barriers to a pedestrian walkway (i.e., sidewalk).

By Federal Regulation as stated in 28 CFR 35.151(b): Alteration is a change that affects or could affect the usability of all or part of a facility (such as a road).

Additional guidance provided by the Department of Justice (DOJ) clearly defines alterations and action that must be taken due to alterations. That guidance is summarized in the following charts.



The Temporary Traffic Control plan must also consider the ability of pedestrians, both able and disabled, to travel safely through or around the construction site. The City shall provide a temporary traffic control plan within the design plans, which includes the City's plan for handling multi-modal traffic during construction, including detour routes and road closings, if necessary, and installation of alternate or temporary pedestrian accessible paths to pedestrian facilities in the public Right of Way within the Project Limits. The City's

temporary traffic control plan must be in conformity with the latest version of the Manual on Uniform Traffic Control Devices (MUTCD), as adopted by the Secretary, and follow the American Disabilities Act (ADA) and its implementing regulations at 28 C.F.R. Part 35, and FHWA rules, regulations, and guidance pertaining to the same.

20.5.2.2.3 Video Detection Systems (VDS)

Video Detection Systems are participating project components in the CCLIP-SP Program when cost savings will result from the installation of such a system in lieu of in-pavement traffic signal loops.

Plans for these systems shall include the following:

- 1. Traffic signal wiring & timing diagram
- 2. Traffic Signal Intersection Layout Sheet (depicting camera locations and dashed lines showing the anticipated detection zones)
- 3. NEMA or Type 170E Traffic Signal Quantities Sheets (TE130A or TE130B)
 - a. Include in the "Bill of Material items", "Video Detection Processing Unit (1 each)" (with reference to latest Special Provision)
 - b. "Video Cameras" (quantity either 4 or 6 each, with reference to latest Special Provision)
 - c. Traffic Signal Installation (LUMP SUM) in recap table
 - d. Video Detection System (LUMP SUM) in recap table
 - e. Latest approved KDOT specification sheets (**TE120 A** thru **D**) and Special Provision for the proposed VDS must be included in the Project specifications.

Note: If modifications to the original VDS plan are required during construction, an "As-Built" plan set should be provided to BLP once the Project has been completed and accepted by the KDOT Area Office.

20.5.3 Participating Items

Items eligible for CCLIP-SP funding include manhole adjustments, milling, overlays, aggregate or paved shoulders (if already existing), concrete pavement, thin bonded concrete overlays, joint repair, slurry seals, bituminous seals, ultra-thin bonded overlay, concrete and asphalt pavement patching, subgrade improvement, reconstruction, traffic control, transporting of salvageable material (millings), striping, ADA Ramps providing access to the State Highway as required by Federal Regulation, traffic signal loops on the state highway and that portion of the traffic signal loops that lie inside the return on side streets, and pavement marking on the connecting link. Video-detection systems are participating, except on side streets. They require pre-approval, as well as additional details, and a bill of materials to be included in the final design plans. See *Section 20.5.2.2.3*. Resurfacing work is participating out to the curb returns on side streets.

20.5.4 Non-Participating Items

Items typically non-eligible for CCLIP-SP funding include but are not limited to: bridge deck patching, utility adjustments, curb and gutter, overlay of curb and gutter, adjustment or reestablishment of survey markers, drainage appurtenances, driveways, entrances, sidewalks, construction warranties, traffic loop construction outside the return on a side street, video detection on side streets, and construction outside of the curb and gutter. Work performed outside the Project limits on side streets, or outside the city limits, items with unit price changes from the let price (other than items with price adjustment specification in the bid documents) and any other items deemed non-eligible by the Secretary are non-eligible for state participation.

20.5.5 Proposal Requirements

1. Cover Page

Items that should be included on the Cover Page:

- a. Include the full Project Number, (i.e. (US)75-63 U-1672-01)
- b. Include the Program Fiscal Year (i.e. FY 2015)
- c. Include the Project Location (e.g. US-24 (Main St.), from Iowa St. to Kansas St.)
- d. Include the Project Scope (e.g. 3" mill and 3" BM-2 overlay)
- e. Include the name of the City
- f. Include the name of the County
- g. Current date of printing
- h. Preliminary Specifications Book should be stamped "Preliminary"
- i. Be consistent in the use of English units.
- 2. Contract Documents
- 3. Performance Bond
- 4. Payment Bond
- 5. Notice to Proceed
- 6. Technical Specifications
- 7. The City may use their project specifications, however, the most recent version of KDOT's <u>Standard Specifications for State Road and Bridge Construction</u> is recommended for use. Designers that use KDOT specifications are encouraged to incorporate applicable KDOT standard drawings into the final design plans. The Project specifications should include the following:
 - a. Include all applicable special provisions.
- 8. The City is responsible for the custody and archival of the project specifications and official contract documents.

20.5.5.1 <u>Construction Cost Estimate</u>

The Construction Cost Estimate (See *Figure 20.12*) should be developed using a spreadsheet. The <u>estimated</u> number of working days required to complete the Project will be indicated at the bottom of the page.

20.5.6 Advertisement

The final design plans (including Form 1326 formatted plans) and Proposal shall be sealed, signed, and dated by a Professional Engineer licensed in the State of Kansas. After review of the final design plans, specifications, and cost estimate, BLP will issue an electronic "Authority to Advertise." **Projects let to contract without the "Authority to Advertise" are subject to loss of funding.** (See *Figure 20.13* for an example.)

A recommended minimum advertisement period is **30 days**. If circumstances require a shorter advertising period, it must be approved by BLP prior to advertisement. Advertisements should be included in publications such as local, area and regional newspapers to promote optimum competition.

20.5.7 Letting

The City will administer the Project Letting. When the bids have been opened and read, the City will forward to BLP:

- 1. Notification of the letting date
- 2. The Bid Tabs
- 3. The Contract Specification
- 4. The name of the recommended Contractor
- 5. The Contract Amount
- 6. Certified statement of a review of the bid documents indicating no evidence of fraud or collusion. (See *Figure 20.14* for an example.)

20.5.8 Award

BLP will issue an "Authority to Award" the contract. (See *Figure 20.15* for an example.) The City shall also submit electronically to BLP copies of the "Notice of Award" and the signed contract documents. **Contracts signed prior to receiving the "Authority to Award" from BLP are subject to loss of funding.**

<u>Note</u>: These documents are required for reimbursement to the City and eventual audit of the project.

After the "Authority to Award" has been issued by BLP, the City must complete a "REQUEST FOR PROJECT EXEMPTION CERTIFICATE (Department of Revenue Form PR-76)," which can be filled out electronically at the following address:

<u>https://ksrevenue.org/pdf/pr76.pdf</u> or if the City has attained "agent" status through KDOR, they must submit a copy of the document granting them "agent" status and a copy of the Form PR-76 issued by the City to the Contractor.

A publication containing more information about this form and the process can be found at: <u>https://www.ksrevenue.org/pdf/pub1520.pdf</u> or you may contact the Kansas Department of Revenue (KDOR) directly at the address shown below.

Kansas Department of Revenue (KDOR) Docking State Office Building 915 SW Harrison Street Topeka, KS 66612-1588 Website: <u>https://www.ksrevenue.org/taxindex.html</u> Email: kdor_tac@ks.gov

After the City completes the form, they need to return it to the address stated above. KDOR will assign the City an Exemption Certificate Number specific to a given CCLIP-SP Project. A copy of the document from KDOR assigning the Exemption Certificate Number must be provided to BLP prior to issuing the "Notice to Proceed."

After the Project is completed, the City shall complete the "State of Kansas Project Completion Certification" (KDOR Form PR-77) (See *Figure 20.22* for an example.), obtained from the KDOR, which certifies that all materials purchased by the Contractor were exempt from payment of sales tax. This form must be delivered to the City and kept on file for 5 years after project finalization. A copy of the Form PR-77 must also be provided to BLP before reimbursement can be processed.

20.5.9 Notice to Proceed

After the "Notice of Award," the signed contract documents, and the completed KDOR Form PR-76 have been received from the City, BLP will create a contract and enter an "Actual Start Date" in CMS and notify the Area Engineer of the letting date, the name of the Contractor and the contract amount. The Area Engineer will issue a "Notice of Actual Start Date" to the City. The City may then issue a formal "notice to proceed" to the contractor. BLP and the Area Engineer should be sent a copy of the "notice to proceed." BLP will enter the date of the Notice to Proceed into CMS.

The City is responsible for keeping track of the **total actual costs** of construction, construction engineering (CE), preliminary engineering (PE, i.e. design costs), and utility adjustments incurred during the Project. **Reimbursement for construction and CE shall be based upon the contract bid prices.** Only **actual costs incurred** by the Contractor will be eligible for reimbursement. In addition, the City is responsible for keeping track of all eligible/participating and non-eligible/non-participating costs for the Project. The City is also responsible for having their CCLIP-SP Project quality inspected, and the materials tested in accordance with the Project specifications.

20.5.10 Request for reimbursement

20.5.10.1 Certification of Completion

After the Project has been completed and the Contractor has been paid in full by the City, the City shall transmit to the KDOT Area Engineer a "Certification of Completion" letter notifying KDOT that all work has been completed in substantial compliance with the final design plans, specifications, and contract documents. This letter shall contain verification from a licensed Professional Engineer employed by the City that the Project was completed in compliance with the City/State Agreement, final design plans, specifications, and contract documents. A copy of this letter shall be sent to BLP as a part of the detailed billing for reimbursement (see Section 20.5.10.3 below).

20.5.10.2 Notice of Acceptance

The Area Engineer will perform a final inspection to verify that the Project was constructed within substantial compliance of the final design plans, specifications, and cost estimate. The Area Engineer will then acknowledge and concur with the "Notice of Acceptance" (KDOT Form 232) that the project was built to substantial compliance with the approved plans, contract and specifications. The Area Engineer will notify BLP and the City of concurrence, and then the City can submit detailed billing to BLP for reimbursement of the Secretary's share in the eligible construction and CE items of the Project.

20.5.10.3 Detailed Billing for Reimbursement

The City shall submit a Detailed Billing for reimbursement of construction and construction engineering (CE) expenses to BLP. A copy of this information shall also be submitted to the Area Engineer for their information. The City should **label each detail** with the City Name, Project Number, Fiscal Year, and date. **All Project costs must be tabulated, verified, neatly summarized, and accounted for**.

20.5.10.3.1 Final Summary of Actual Construction Expenses

This is a recapitulation of actual bid items, quantities, unit costs, and total amount. Separate the eligible/participating items and costs and the non-eligible/non-participating costs. (See *Figure 20.16* for an example.)

20.5.10.3.2 Final Summary of Actual Construction Engineering (CE) Expenses.

1. Lump Sum Method

CE services can be paid for by Lump Sum if it has been agreed upon by the City and the Consultant. If this method is used, a copy of the CE Agreement between the City and Consultant must be submitted to KDOT for payment.

2. Itemized Method

This method is an accounting of all construction engineering (CE) costs. Separate all eligible/participating CE costs and the non-eligible/non-participating CE costs in a spreadsheet.

State the entity responsible for performing the CE-the City or their Consultant (include the name of the Consultant).

The following items should be included on the DETAIL SHEET:

- a. The employee's name.
- b. The employee's job title and inspection certification number (if certified).
- c. The employee's total number of hours worked.
- d. The employee's pay rate.
- e. The extension showing the total contract amount (hours times pay rate).
- f. Overhead and the rate that is charged.
- g. Net Fee.
- h. Direct Expenses.
- i. Total requested (using spreadsheet formulas).
- j. Check the spreadsheet formulas.

(See *Figure 20.17* for an example)

20.5.10.3.3 ACTUAL PE (Design)/Utility Cost Summary Form

Complete and submit the <u>Actual PE-Utility Cost Summary Form (KDOT Form 1327)</u> (See *Figure 20.18*) to BLP. These costs are non-participating, but are required by the Kansas legislature to obtain the total **actual** cost incurred for the Project.

20.5.10.3.4 CCLIP-SP Reimbursement Summary Form

Complete and submit the <u>CCLIP-SP Project Reimbursement Summary Form (KDOT Form 1328)</u> (*Figure 20.19*) to BLP along with the detailed billing.

See *Figure 20.21* for a complete checklist of the items required for reimbursement.

20.6 Project Audit/ Final Voucher

BLP will indicate that the Project is ready for audit as soon as the audit voucher is completed. Normally, final payment to the city will be completed within two (2) weeks. The City shall make its records and books available to representatives of the Secretary for audit for a period of five (5) years after date of final payment for reimbursement. If any such audits reveal payments have been made with state funds by the City for items considered non-participating, the City shall promptly reimburse the Secretary for such items upon notification by the Secretary.

Figures

- Figure 20.1 CCLIP-SP Program Application Form
- Figure 20.2 CCLIP-SP Agreement
- Figure 20.3 Project Recapitulation Form
- Figure 20.4 General Notes for Plans
- Figure 20.5 Typical Section
- Figure 20.6 Typical Section (C&G)
- Figure 20.7 Example Pavement Markings Summary and Recap Form
- Figure 20.8 Example Pavement Markings Summary and Recap Form
- Figure 20.9 Example Pavement Markings Summary and Recap Form
- Figure 20.10 Traffic Control Summary & Recap Form
- Figure 20.11 Traffic Control Summary & Recap Form
- Figure 20.12 Construction Cost Estimate
- Figure 20.13 Authority to Advertise CCLIP-SP Project
- Figure 20.14 Certification of Bid Documents
- Figure 20.15 Authority to Award CCLIP-SP Project
- Figure 20.16 Final Construction Cost Expenses
- Figure 20.17 Final Summary of CE Expenses
- Figure 20.18 Actual PE-Utility Cost Summary Form
- Figure 20.19 CCLIP-SP Project Reimbursement Summary Form
- Figure 20.20 CCLIP-SP Title Sheet Example
- Figure 20.21 Items Required for Reimbursement
- Figure 20.22 Project Completion Certificate (KDOR PR-77)

KANSAS DEPARTMENT OF TRANSPORTATION - BUREAU OF LOCAL PROJECTS

CITY CONNECTING LINK IMPROVEMENT PROGRAM (CCLIP) APPLICATION

Program Category:	Surface Preservation (SP)			
Program Fiscal Year:	2020			
Submittal Date:	3/7/2016			

Name of City:	Emerald
County of Project Location:	Johnson
Population of City:	2500
State Highway of Project:	К-123

Primary Contact Name and Title:	John Doe, City Engineer
Contact Address:	123 Acme Way, Emerald City, KS 65555
Phone:	(913) 555-1234
E-mail Address:	Jdoe@xyz.org

Project Location:

Improve K-999 from the W. city limits of Emerald City to the E. city limits of Emerald City.

Project Scope:

Milling and overlay.

Project Length:	3.142	miles	J

RR within 1/2 mile?	RR Company Name	No. of Tracks	Existing Crossing Protection
No			

Project Cost Estimate							
		Participating		Non-Participating Total		Comments	
Preliminary Engineering (Design)	\$	-	\$	35,000.00	\$	35,000.00	
CE (Inspection)	\$	56,000.00	\$	-	\$	56,000.00	
Right of Way	\$	-	\$	-	\$	-	
Utility Adjustments	\$	-	\$	15,000.00	\$	15,000.00	
Construction Total	\$	375,000.00	\$	-	\$	375,000.00	
Milling	\$	50,000.00	\$	-	\$	50,000.00	
Surfacing (Asphalt)	\$	325,000.00	\$	-	\$	325,000.00	
			\$	-	\$	-	
			\$	-	\$	-	
			\$	-	\$	-	
			\$	_	\$	-	
	\$	_	\$	-	\$	-	
	\$	-	\$	-	\$	-	
Inflation Amount at 4.5% / year	\$	60,843.00	\$	7,058.00	\$	67,901.00	
Total Estimated Project Cost	\$	491,843.00	\$	57,058.00	\$	548,901.00	

Program Maximum: \$	300	,000.00	
Allowable Project Maximum: \$	315	,789.47	to not exceed Program Maximum
Local Share Percentage:	5%		KDOT Share Percentage: 95%

Yes

KANSAS DEPARTMENT OF TRANSPORTATION - BUREAU OF LOCAL PROJECTS

CITY CONNECTING LINK IMPROVEMENT PROGRAM (CCLIP) APPLICATION

Program Category:	Program Category: Surface Pres		
Program Fiscal Year:	2020		
Submittal Date:	3/7/2016		
Local Match (5%)	\$ 15,	789.47	
Local Match over the Max	\$ 176,	053.53	
Non-Participating	\$ 57,	058.00	
Total Local Share	\$ 248,	901.00	
Total Requested from KDOT	\$ 300,	000.00	

Coordination Information:

Describe any known KDOT or other projects that may need coordination:

None.

Has the proposed project been discussed or reviewed by any KDOT field staff? (Yes or No) If so, who? John Smith

Attachment Checklist:

a. Project Map

b. Detailed cost estimate

Completed applications should be emailed to:

KDOT.LPePlans@ks.gov

To confirm receipt, if you do not receive an email response, please follow up with a call to the Bureau of Local Projects

PROJECT NO. _____ CCLIP (SP) RESURFACING PROJECT CMS CONTRACT NO. _____ CITY OF _____, KANSAS

AGREEMENT

This Agreement is between the **Secretary of Transportation**, Kansas Department of Transportation (KDOT) (the "Secretary") and the **City of ______, Kansas** ("City"), **collectively**, the "Parties."

RECITALS:

- A. The City has applied for and the Secretary has approved a CCLIP (SP) Resurfacing Project.
- B. The Secretary and the City are empowered by the laws of Kansas to enter into agreements for the construction and maintenance of city connecting links of the State Highway System through the City.
- C. The City desires to construct a street resurfacing Project on \<insert city street common name>_____, a city connecting link for the State Highway System, in the City.
- D. The Secretary desires to enter into an Agreement with the City to participate in the cost of the Project by use of State Highway funds.

NOW, THEREFORE, the Parties agree as follows:

ARTICLE I

DEFINITIONS:

As used in this Agreement, the capitalized terms below have the following meanings:

1. <u>City Connecting Link</u> - a route inside the city limits of a city which: (1) connects a state highway through a city; (2) connects a state highway to a city connecting link of another state highway; (3) is a state highway which terminates within such city; (4) connects a state highway with a road or highway under the jurisdiction of the Kansas Turnpike Authority; or (5) begins and ends within a city's limits and is designated as part of the national system of Interstate and defense highways.

2. <u>CCLIP (SP) Resurfacing Program</u> - a city connecting link (CCLIP (SP)) resurfacing program that is a part of the KDOT Local Partnership Program with cities and counties. The state's participation in the cost of construction and construction engineering will be seventy-five percent (75%) for cities with a population of less than 10,000 or fifty percent (50%) for cities with a population of 10,000 or greater, up to a maximum of \$300,000.00 per fiscal year of state funds. The CCLIP (SP) Resurfacing Program is for contract maintenance only.

3. <u>Project</u> - mill and overlay, reconstruction, minor patching, joint repair, slurry seal, microsurfacing, and any other pre-approved resurfacing methods for the CCLIP (SP) Resurfacing Program for ______, from ______ to _____.

4. <u>Eligible/Participating Bid Items</u> - all bid items that pertain to Project resurfacing and striping along the connecting link only. Items eligible for CCLIP (SP) funding include manhole adjustments, milling, overlays, aggregate or paved shoulders (if already existing), concrete pavement, thin bonded concrete overlays, joint repair, slurry seals, bituminous seals, ultra thin bonded overlay, concrete and asphalt pavement patching, subgrade improvement, reconstruction, traffic control, transporting of salvageable material (millings), striping, traffic signal loops on the state highway and that portion of the traffic signal loops that lie inside the return on side streets, and pavement marking on the connecting link. Video-detection systems are participating, except on side streets; however, such systems will require preapproval, as well as additional details, and a bill of materials to be included in the final design plans. Resurfacing work is participating out to the curb returns on side streets.

5. <u>Non-Eligible/Non-Participating Bid Items</u> - items typically non-eligible for CCLIP (SP) funding include but are not limited to: bridge deck patching, utility adjustments, curb and gutter, overlay of curb and gutter, adjustment or reestablishment of survey markers, drainage appurtenances, driveways, entrances, sidewalks, sidewalk ramps, construction warranties, traffic loop construction outside the return on a side street, video detection on side streets, and construction outside of the curb and gutter. Work performed outside the Project limits on side streets, or outside the city limits is non-eligible for state participation, items with unit price changes from the let price (other than items with price adjustment specification in the bid documents) and any other items deemed non-eligible by the Secretary.

6. <u>Fiscal Year (FY)</u> - the state's fiscal year begins July 1 and ends on June 30 of the following calendar year.

ARTICLE II

SECRETARY RESPONSIBILITIES:

1. <u>Reimbursement of Project Costs</u>. The Secretary agrees to reimburse the City ______ percent (___%) of the total actual costs of construction (which includes the costs of all construction contingency items) and construction engineering, but not to exceed \$______.00, as the Secretary's total share of the cost to construct the Project. The Secretary shall not be responsible for the total actual costs of construction (which includes the costs of all construction engineering that exceed \$______.00. The Secretary shall not be responsible for the total actual costs of preliminary engineering, utility adjustments, or items not participating in the CCLIP (SP) Resurfacing Program.

2. <u>Reimbursement Payments</u>. The Secretary will make such payment to the City as soon as reasonably possible after construction of the Project is completed, after receipt of proper billing, and attestation by a licensed professional engineer employed by the City that the Project was constructed within substantial compliance of the final design plans and specifications.

ARTICLE III

CITY RESPONSIBILITIES:

1. <u>Limited Scope</u>. The Project is limited to roadway resurfacing along the Project location. The Project roadway resurfacing may include all eligible items as defined above. Roadway resurfacing does not include such non-eligible items as defined above and any other items deemed non-eligible by the Secretary. The City will be responsible for construction of any traffic signal and/or sidewalk improvements that are necessary to comply with the American Disabilities Act of 1990 (ADA) and its implementing

regulations at 28 C.F.R. Part 35, regardless of whether such improvements are deemed non-eligible/non-participating bid items by the Secretary for reimbursement purposes.

2. <u>Secretary Authorization</u>. The Secretary is authorized by the City to take such steps as are deemed by the Secretary to be necessary or advisable for the purpose of securing the benefits of the current CCLIP (SP) Resurfacing Program for this Project.

3. <u>General Indemnification</u>. To the extent permitted by law and subject to the maximum liability provisions of the Kansas Tort Claims Act, the City will defend, indemnify, hold harmless, and save the Secretary and the Secretary's authorized representatives from any and all costs, liabilities, expenses, suits, judgments, damages to persons or property or claims of any nature whatsoever arising out of or in connection with the provisions or performance of this Agreement by the City, the City's employees, agents, or subcontractors. The City shall not be required to defend, indemnify, hold harmless, and save the Secretary for negligent acts or omissions of the Secretary or the Secretary's authorized representatives or employees.

4. <u>Indemnification by Contractors</u>. The City will require the contractor to indemnify, hold harmless, and save the Secretary and the City from personal injury and property damage claims arising out of the act of omission of the contractor, the contractor's agent, subcontractors (at any tier), or suppliers (at any tier). If the Secretary or the City defends a third party's claim, the contractor shall indemnify the Secretary and the City for damages paid to the third party and all related expenses either the Secretary or the City or both incur in defending the claim.

5. <u>Design, Letting, and Administration</u>. The City will prepare or contract to have prepared, the design plans, specifications, and cost estimate (PS&E) for the Project, let the contract, and award the contract to the lowest responsible bidder. The City agrees to construct or have constructed the Project in accordance with the final design plans and specifications; inspect or have inspected the construction; administer the Project; and make the payments due the contractor, including the portion of cost borne by the Secretary. The City shall design the Project or contract to have the Project designed in conformity with the current version of Section 16.0 City Connecting Links (CCLIP (SP)) Resurfacing Program of the <u>LPA Project Development Manual</u>.

6. <u>Responsibility for Adequacy of Design</u>. The City and any consultant retained by the City shall have the sole responsibility for the adequacy and accuracy of the design plans, specifications, and estimates. Any review of these items that may be performed by the Secretary or the Secretary's representatives is not intended to and shall not be construed to be an undertaking of the City's and its consultant's duty to provide adequate and accurate design plans, specifications, and estimates. Such reviews are not done for the benefit of the consultant, the construction contractor, the City, or other political subdivision, nor the traveling public. The Secretary makes no representation, expressed or implied warranty to any person or entity concerning the adequacy or accuracy of the design plans, specifications, and estimates or any other work performed by the consultant or the City.

7. <u>Design Schedule and Submission to Secretary</u>. The City will follow a schedule for design and development of plans that will allow the Project to be let to contract in the programmed fiscal year; otherwise, the City agrees the Secretary has the right to withdraw the Secretary's participation in the Project. If the City's Project preliminary plans, specifications, and a cost estimate (PPS&E) are submitted to KDOT's Bureau of Local Projects later than May 1 of the programmed fiscal year, at the Secretary's discretion, the Project may be moved into a future fiscal year.

8. <u>Movement of Utilities</u>. The City will move or adjust, or cause to be moved or adjusted, and will be responsible for such removal or adjustment of all existing structures, pole lines, pipelines, meters,

and other utilities, publicly or privately owned, which may be necessary for construction of the Project in accordance with the final design plans. The expense of the removal or adjustment of the utilities and encroachments located on public right of way or easement shall be borne by the owner or the City.

9. Future Encroachments. The City will prohibit future erection, installation or construction of encroachments either on or above the right of way, and it will not in the future permit the erection of fuel dispensing pumps upon the right of way of the connecting link. The City further agrees it will require any fuel dispensing pumps erected, moved or installed along the connecting link be placed a distance from the right of way line no less than the distance permitted by the National Fire Code.

10. <u>Legal Authority</u>. The City will adopt all necessary ordinances and/or resolutions and take such administrative or legal steps as may be required to give full effect to the terms of this Agreement.

11. <u>Temporary Traffic Control</u>. The City shall provide a temporary traffic control plan within the design plans, which includes the City's plan for handling multi-modal traffic during construction, including detour routes and road closings, if necessary, and installation of alternate or temporary pedestrian accessible paths to pedestrian facilities in the public Right of Way within the Project Limits. The City's temporary traffic control plan must be in conformity with the latest version of the <u>Manual on Uniform</u> <u>Traffic Control Devices</u> (MUTCD), as adopted by the Secretary, and be in compliance with the American Disabilities Act of 1990 (ADA) and its implementing regulations at 28 C.F.R. Part 35, and FHWA rules, regulations, and guidance pertaining to the same.

12. <u>Permanent Traffic Control</u>. The City shall conform the location, form and character of informational, regulatory and warning signs, of traffic signals and of curb and pavement or other markings installed or placed by an public authority, or other agency as authorized by K.S.A. 8-2005, shall conform to the manual and specifications adopted under K.S.A. 8-2003, and any amendments thereto are incorporated by reference, and shall be subject to the approval of the Secretary.

13. <u>Access Control</u>. The City will maintain control of access rights and prohibit the construction or use of any entrances or access points along the Project within the City other than those shown on the final design plans, unless prior approval is obtained from the Secretary.

14. <u>Final Design Plans</u>. The final design plans will depict the entire Project location. The eligible/participating bid items must be shown separated and listed apart from the non-eligible/non-participating bid items on the final design plans, bid documents, and on the detailed billing provided by the City. The City shall have the final design plans signed and sealed by a licensed professional engineer. The City will furnish to KDOT's Bureau of Local Projects an electronic set of final design plans and specifications. The City further agrees the specifications will require the contractor to provide a performance bond in a sum not less than the amount of the contract as awarded.

15. <u>**Program Administration.**</u> In addition to complying with all requirements contained in Section 16.0 City Connecting Links (CCLIP (SP)) Resurfacing Program of the <u>LPA Project Development Manual</u>:

(a) The City acknowledges that funding for the Project may be cancelled if the City proceeds to advertise, let, or award a contract for the Project, prior to receipt of notification from KDOT's Bureau of Local Projects of its completion of the final review of the plans, specifications, and estimates (PS&E).

(b) The City acknowledges that funding for the Project may be cancelled if the City awards the contract for the Project prior to its receipt of an "Authority to Award" notification from KDOT's Bureau of Local Projects.

(c) The City will provide to KDOT's Bureau of Local Projects an electronic copy of the executed contract, the completed tax exemption form (PR-76 or PR-74a) and the City's Notice of Award.

(d) After the contract for the Project is awarded, the City will promptly notify both the Project Manager of KDOT's Bureau of Local Projects and the KDOT Area Engineer to communicate the date the contractor is anticipated to begin work on the Project.

(e) The City acknowledges that any costs for work completed prior to receipt of a Notice of Actual Start Date from the KDOT Area Engineer are ineligible for participation in the Program, will be deemed non-participating costs, and shall be the responsibility of the City.

16. <u>Discrimination Laws</u>. The City will: (a) comply with the Kansas Act Against Discrimination (K.S.A. 44-1001 *et seq.*) and the Kansas Age Discrimination in Employment Act (K.S.A. 44-1111 *et seq.*) and the applicable provisions of the Americans With Disabilities Act (42 U.S.C. 12101 *et seq.*)(ADA) and not discriminate against any person because of race, religion, color, sex, disability, national origin or ancestry, or age in the admission or access to, or treatment or employment in, its programs or activities; (b) include in all solicitations or advertisements for employees, the phrase "equal opportunity employer"; (c) comply with the reporting requirements set out at K.S.A. 44-1031 and K.S.A. 44-1116; and (d) include those provisions in (a) through (c) in every contract, subcontract or purchase order so they are binding upon such contractor, subcontractor or vendor. If the City fails to comply with any applicable requirements of (a) through (d) above or if the City is found guilty of any violation by federal or state agencies having enforcement jurisdiction for those Acts, such violation will constitute a breach of this Agreement. If the Secretary determines the City has violated applicable provisions of the ADA, the violation will constitute a breach of this Agreement. If any violation under this paragraph occurs, this Agreement may be cancelled, terminated or suspended in whole or in part.

17. <u>**Inspections.**</u> The City will provide the construction engineering/inspection necessary to determine substantial compliance with the final design plans, specifications, and this Agreement. The City will require at a minimum all personnel, whether City or consultant to comply with the high visibility apparel requirements of the <u>*KDOT Safety Manual*</u>, Chapter 4, Section 8 Fluorescent Vests. If the City executes an agreement for inspection, the agreement must contain this requirement as a minimum. The City may set additional clothing requirements for adequate visibility of personnel.

18. <u>Corrective Work</u>. Representatives of the Secretary may make periodic inspection of the Project and the records of the City as may be deemed necessary or desirable. The City will direct or cause its contractor to accomplish any corrective action or work required by the Secretary's representative as needed for a determination of the funding participation in the CCLIP (SP) Resurfacing Program. The Secretary does not undertake (for the benefit of the City, the contractor, the consultant, or any third party) the duty to perform day-to-day detailed inspection of the Project or to catch the contractor's errors, omissions or deviations from the final design plans and specifications.

19. <u>Attestation</u>. Upon completion of the Project the City shall have a licensed professional engineer employed by the City attest in an email to the KDOT Area Engineer and the Project Manager for KDOT's Bureau of Local Projects, that the Project was completed in substantial compliance with the final design plans and specifications.

20. <u>Final Acceptance</u>. Prior to issuing final payment to the contractor, the City must obtain final acceptance of the Project from the KDOT Area Engineer.

Agreement No. _____

21. <u>Accounting</u>. Upon request by the Secretary, the City will provide the Secretary an accounting of all actual non-participating costs which are paid directly by the City to any party outside of KDOT and costs incurred by the City not to be reimbursed by KDOT for preliminary engineering, utility adjustments, or any other major expense associated with the Project. This will enable the Secretary to report all costs of the Project to the legislature.

22. <u>**Reimbursement Request.**</u> The City will request payment from the Secretary after the City has paid the contractor in full, and a licensed professional engineer has attested in writing the Project has been completed in conformance with the plans and specifications.

23. <u>Audit</u>. The City will participate and cooperate with the Secretary in an annual audit of the Project. The City shall make its records and books available to representatives of the Secretary for audit for a period of five (5) years after date of final payment under this Agreement. If any such audits reveal payments have been made with state funds by the City for items considered non-participating, the City shall promptly reimburse the Secretary for such items upon notification by the Secretary.

ARTICLE IV

GENERAL PROVISIONS:

1. <u>Existing Right of Way</u>. The Project will be constructed within the limits of the existing right of way.

2. <u>Incorporation of Final Plans</u>. The final design plans and specifications are by this reference made a part of this Agreement.

3. <u>Compliance with Federal and State Laws</u>. The Parties agree to comply with all appropriate state and federal laws and regulations applicable to this Project.

4. <u>Project Modification</u>. Any of the following Project changes require the City to send a formal notice to the Secretary for approval:

- a. Fiscal year the Project is to be let
- b. Project length
- c. Project location
- d. Project scope

Items b, c, and d require an attached map to scale.

It is further mutually agreed during construction, the City shall notify the Secretary of any changes in the plans and specifications.

5. <u>Civil Rights Act</u>. The "Special Attachment No. 1, Rev. 09.20.17" pertaining to the implementation of the Civil Rights Act of 1964, is attached and made a part of this Agreement.

6. <u>**Contractual Provisions.**</u> The Provisions found in Contractual Provisions Attachment (Form DA-146a, Rev. 06-12), which is attached hereto, are hereby incorporated in this contract and made a part hereof.

7. <u>Termination</u>. If, in the judgment of the Secretary, sufficient funds are not appropriated to continue the function performed in this Agreement and for the payment of the charges hereunder, the

Secretary may terminate this Agreement at the end of its current fiscal year. The Secretary will participate in all costs approved by the Secretary incurred prior to the termination of the Agreement.

8. <u>**Binding Agreement.**</u> This Agreement and all contracts entered into under the provisions of this Agreement are binding upon the Secretary and the City and their successors in office.

9. <u>No Third Party Beneficiaries</u>. No third party beneficiaries are intended to be created by this Agreement and nothing in this Agreement authorizes third parties to maintain a suit for damages pursuant to the terms or provisions of this Agreement.

10. <u>Headings</u>. The captions of the various articles and sections of this Agreement are for convenience and ease of reference only, and do not alter the terms and conditions of any part or parts of this Agreement.

11. <u>Effective Date</u>. This Agreement will become effective as of the date signed by the Secretary or designee.

IN WITNESS WHEREOF, the Parties have caused this Agreement to be signed by their duly authorized officers.

ATTEST:

THE CITY OF _____, KANSAS

CITY CLERK (Date)

MAYOR

(SEAL)

Kansas Department of Transportation Secretary of Transportation

By:_____

Catherine M. Patrick, P.E. State Transportation Engineer (Date)



City Connecting Links "KLINK" Resurfacing Program



Project Recapitulation Form

			or Moderate surfa	icing treatment, s	eatment, such a slurry seal, such as a mill\overlay
Letting Da		County	without pavement	Project Number	_
State Route		Project length (1	ît)	Project (avg.) w	
Existing Su	Irface Material				
Project Loc	cation and Limits				
				As indicated on a	attached 1/4" scale map
	scription of Work hickness, etc.)				
Quantity	Unit		Bid Item		
				_	
					Engineer's Seal and Signature
					Project Engineer (must be a Registered Professional Engineer in the State of Kansas)
					in the state of Kansus)
					Date
	Use ad	lditional copies of thi	s form if more bid items a	re required.	
Additional Re	marks				
Estimated N	Jumber of Working	g Days	KDOT District	No. K	DOT Area No.

Figure 20.3

DOT Form 1326 (Rev. 10/11)

GENERAL NOTES

The contractor is responsible for establishing and maintaining centerline of the traveled way for the duration of the project. Splitting the traveled way with a tape measure is an acceptable technique to establish centerline. This work is considered subsidiary to other items in the contract.

All work should be coordinated so that all lanes will be opened to traffic by one half hour before sunset. No lane closures or detours will be allowed overnight.

All saw cuts will be full depth and shall not be paid for directly but shall be considered subsidiary to other items of the contract.

Drainage structures which are to remain, whether extended or not. Shall be cleaned out by the contractor as directed by the Engineer. This work be paid for under the bid item "Cleaning Existing Structures"

All labor, materials, and equipment necessary to make connections to existing pipe or existing small structures shall not be paid for directly but shall be considered subsidiary to other items of the contract.

The Contractor shall call for utility locations before any excavation or other work takes place in areas where utilities could possibly be involved.

The department takes no responsibility for any damage of any kind due to the Contractor.

The signs listed are the minimum required. The contractor shall provide all signs and other traffic control devices, for proper traffic control of all construction activities.

CRACK SEALING

The contractor shall recognize that the contract quantity of crack sealing is an estimate based on the condition of the roadway at the time the contract was prepared. The final quantity of crack sealing will be determined in the field at the time the work is accomplished. No adjustment of unit price for crack sealing will be made due to quantity fluctuations.

Location of cracks to be sealed shall be decided by the Engineer.

Traffic Control was done as Lump Sum and shall consist of one lane drop at any given time.

This project will require pilot car setup for traffic control.

Note that the project limits extend across all lanes of traffic but no two adjacent lanes shall be closed at the same time.

CRACK SEALING (Cont.)

Bridges and any concrete approaches are excluded from all quantities for this project.

Routing for crack sealing will not be allowed beyond what can be sealed during the next workday.

ASPHALT SEAL

The Asphalt Seal shall be cured a minimum of three weeks prior to Thermoplastic Pavement Marking application. Brooming the Asphalt Seal immediately prior to the application of pavement marking is required. Working days will not be charged for cure time after asphalt sealing is complete, (for the three week curing period), and pavement marking is the controlling item of work.

Permanent pavement marking shall be done by KDOT.

OVERLAY

The contractor shall be responsible for noting the location of all pavement markings and warning rumble strips prior to the work, and reinstalling these in the proper location after the overlay. The rumble strips will be subsidiary to other items of work.

In instances where the spray paver breaks down, material that has already been produced will be allowed to be laid with a conventional paver. Production of material that is to be laid with the spray paver will not begin until the spray paver is repaired and functional.

The contractor is required to bid the HMA overlay as being placed with a Spray Paver. Alternate methods may be allowed providing all performance specifications (pull test), which will be published in spring 2011, are met. A commensurate cost reduction proposed by the contractor and approved by KDOT will be negotiated if the Spray Paver is not used.

(Use following note when placing HMA with a spray paver on Concrete Pavement)

The HMA overlay will be placed by using a Spray Paver only. Alternate methods of placing the HMA overlay will NOT be allowed.

The contractor shall mill the centerline rumble strips prior to installation of the permanent pavement markings.

MILLING

Contractor must mill and inlay any section of the roadway on the same day. No traffic will be allowed on the milled surface and the contractor must have a contingency plan in case of bad weather and/or equipment breakdown.

Quantities for the milling are based on a 2" nominal depth and a unit weight of 145 lbs/cubic feet. The milling depth may be decreased if the actual unit weight is more than 145 lbs/cubic feet, but will not be increased if the unit weight is less than 145 lbs/cubic feet. The maximum milling depth will be 2" or less. (change the 2" nominal depth/maximum milling depth to match the project's planned milling depth)

Milling heads with a minimum 12' width to a maximum 12' 6" width will be allowed. Based on a 24' wide roadway, depth of milling shall be adjusted so no overrun of milling or HMA Overlay quantities occur.

All excess milled material not used on this project shall become the property of the Contractor and removed from the project.

All excess milled material from the project shall become property of Kansas Department of Transportation and hauled and stockpiled at storage site at (GIVE LOCATION).

Stockpile to be one (1) truck dump high placed as directed by the Engineer.

Hauling and stockpiling of surplus material will not be paid for separately, but will be considered subsidiary to other items in the contract.

Milling thickness will be adjusted at bridge approaches and grade crossings to allow a reasonable transition.

If, during the milling procedure, any loop detector wire is damaged, that loop shall be replaced entirely according to specifications of the City involved. City specifications are available and the contractor shall be responsible to contact the City Engineer for specifications. All work, labor, equipment and material required to complete this work shall be paid at the set price for "Loop Detector Replacement".

PCCP PATCHING

Concrete rubble is to be retained by the Contractor and removed from the project. Excavation shall be considered subsidiary to other items in the contract.

High Early Strength Concrete shall be used in order to open concrete patch areas to the traveling public 30 minutes before sunset.

Traffic will be carried through construction. The Contractor shall submit a Traffic Control Plan, which indicates work sequencing, to the Engineer for approval.

PLOWABLE PAVEMENT MARKERS

The existing pavement markers shall be removed just prior to the milling in any area. The existing pavement markers shall not be salvaged and reused on the project. Removal of the existing pavement markers shall be subsidiary to other items of the contract.

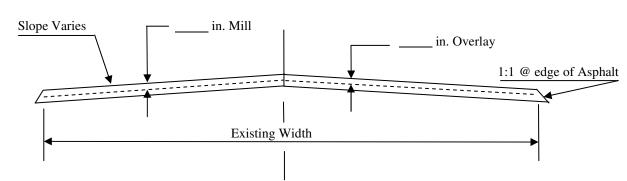
When referring to TE 732 for traffic control using temporary traffic signals the uni-directional yellow temporary raised pavement markers (Type 1) shall be subsidiary to other traffic control items.

SURFACE RECYCLE & SEAL WITH RUMBLE STRIPS

It is the intent of this project to place a conventional seal on the designated roadway followed by placement of a fog seal over the conventional seal after the installation of any rumble strips.

TYPICAL SECTION





not to scale

- Typical Slope 1.56 % on Tangents and on super-elevated sections to match existing super or as directed by the Engineer.
- To allow for a reasonable transition the overlay is to be tapered approximately three feet at all paved side roads and entrances (except those that are approved to be fully paved).

• •		
ROADWA	AY	WIDTHS

_					Approx. Width
Leastian	mile	Approx. Width	Leastion	mila	Midth
Location	mile	width	Location	mile	vvidtri
					-
			1		

RATE OF APPLICATION

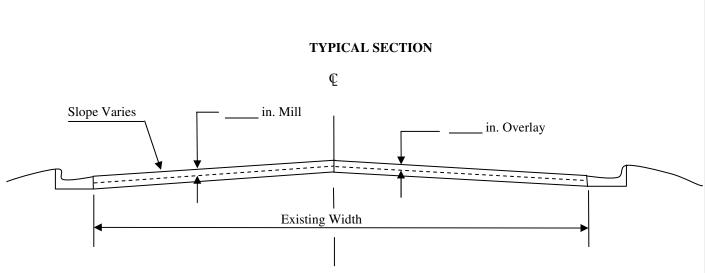
Quantity based on <u>SR- 12.5A</u> @ _____ T/yd^2

PG <u>64</u> - <u>22</u>

SS-1HP @ 0.05 gal/yd²

Millings Computed @ 145 lb/yd³

	Date: 8/9/2011 1:42 PM	KANSAS DEPARTMENT OF TRANSPORTATION
Co.	PROJ. NO.	TITLE: MILLOL



not to scale

- Typical Slope 1.56 % on Tangents and on super-elevated sections to match existing super or as directed by the Engineer.
- To allow for a reasonable transition the overlay is to be tapered approximately three feet at all paved side roads and entrances (except those that are approved to be fully paved).

Location	mile	Approx. Width	Location	mile	Approx. Width
	•	·	FAPPLICATION	•	

ROADWAY WIDTHS

Quantity based on <u>SR- 12.5A</u> @ _____ T/yd^2

PG <u>64</u> - <u>22</u>

SS-1HP @ 0.05 gal/yd²

Millings Computed @ 145 lb/ft³

	Date: 8/9/2011 1:43 PM	KANSAS DEPARTMENT OF TRANSPORTATION
Co.	PROJ. NO.	TITLE: MILLOLCURB

			SUN	MAR	of P	AVEM	ENT N	IARKIN	IGS						
	6"	6"	6" Dotted	6"	8"	12"	12"	12"	24"	24"	4"	4"		6" Solid	12"
	Solid	Broken	WHITE	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid	Solid		YELLOW	Solid
LOCATION	WHITE Edge	WHITE Lane Line	Extension Line	WHITE Lane Line	WHITE Gore Line	WHITE Diagonal	WHITE Chevron	WHITE Type I	WHITE Type II	WHITE Stop Line	YELLOW Double	YELLOW Line	Line	Edge Line	YELLOW Diagonal
	Line	Lane Line	LINC	Lane Line	GOIC EIIC	Line	Line	Crosswalk	Crosswalk		Line	LINC	LINC		Line
								Line	Line						
TOTALS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

NOTE: For Specific pavement marking details and dimensions see plan sheets

NOTE: ALL TOTALS REFLECT ACTUAL QUANTITY OF PAVEMENT MARKING MATERIALS REQUIRED

Project No.

Figure 20.7

					BOL MA	RKINGS					
LOCATION	r	7		1	5	G	I∕∕®	STOP	ONLY	X-ING	SCHOOL
TOTALS	0	0	0	0	0	0	0	0	0	0	0

NOTE: For Specific pavement marking details and dimensions see plan sheets

NOTE: ALL TOTALS REFLECT ACTUAL QUANTITY OF PAVEMENT MARKING MATERIALS REQUIRED

Project No.

Project No.

ITEMS	TOTAL	UNITS
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(4")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(6")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(8")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(12")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(4")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(6")		Inft
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(12")		Inft
PAVEMENT MARKING (EPOXY)(WHITE)(4")		Inft
PAVEMENT MARKING (EPOXY)(WHITE)(6")		Inft
PAVEMENT MARKING (EPOXY)(WHITE)(8")		Inft
PAVEMENT MARKING (EPOXY)(WHITE)(12")		Inft
PAVEMENT MARKING (EPOXY)(YELLOW)(4")		Inft
PAVEMENT MARKING (EPOXY)(YELLOW)(6")		Inft
PAVEMENT MARKING (EPOXY)(YELLOW)(12")		Inft
PAVEMENT MARKING (INTERSECTION GRADE) (WHITE) (12")	_	Inft
PAVEMENT MARKING (INTERSECTION GRADE)(WHITE)(24")	_	Inft
PAVEMENT MARKING (INTERSECTION GRADE)(YELLOW)(12")		Inft
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (R/R XING)		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (Lt Turn Arrow)		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (Rt Turn Arrow)		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (ONLY)		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE) (WHITE) (Rt/Thru Arrow)		EACH
PAVEMENT MARKING REMOVAL		Inft

NOTE:

WORDS & SYMBOLS SHALL CONFORM TO THE LATEST EDITION OF "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" PRINTED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION.

PRIOR TO COMMENCEMENT OF PAVEMENT MARKING WORK THE ENGINEER WILL ESTABLISH THE LIMITS FOR "NO PASSING" ZONES. THESE LIMITS SHALL BE USED FOR THE LOCATION OF " NO PASSING" LINES AND FOR THE COMPUTATION OF ACTUAL MARKING QUANTITIES FOR THIS LINE TYPE

Figure 20.9

SUMMARY OF TRAFFIC CONTROL DEVICES (FOR INFORMATION ONLY)

All traffic control devices shall be placed in accordance with the KDOT Traffic Control Standards. The contractor shall provide all signs and other traffic control devices for proper traffic control of all construction activities. Quantities listed are estimates only. Quantities are typical for TE720 and TE730. Contractor operations may require additional traffic control devices. * QUANTITY USED ON THE PROJECT AT ANY ONE TIME WORK ZONE SIGNS *

	WORK ZO	JNE SIGNS	
SIGN		SIZE – SQ. FT.	
NO.	0-9.25	9.26-16.25	16.26 & OVER
W20-7A			
W20-1			
W20-4			
W3-5			
R4-1			
W14-3			
W3-4			
R2-1			
KM4-20			
G20-2a			
W21-5			
KI-104a			
KI-105a			
G20-4			
	LIGHTED	DEVICES *	•
WORK ZONE WAR (TYPE "A" LOW IN WORK ZONE WAR (RED TYPE "B" HIG	TENSITY) INING LIGHT		
ARROW DISPLAY			
PORTABLE CHAN	GEABLE MESSAG	E SIGN	

BARRICADES *	CHANNELIZING DEVICES *			
TYPE III (4' TO 12')	FIXED	PORTABLE		

SUMMARY OF TRAFFIC CONTROL DEVICES (EACH)

WORK ZONE SIGN (SPECIAL)							
SIGN NO. 16.25 SQ. FT. & LESS 16.26 SQ. FT. & O							

REPLACEMENT MODULES (FOR INFO ONLY)

F-200	
F-400	
F-700	
F-1400	
F-2100	

RECAPITULATION OF QUAN	TITIES	
ITEM	QUANTITY	UNIT
WORK ZONE SIGNS (0 TO 9.25 SQ. FT.)		EADA
WORK ZONE SIGNS (9.26 TO 16.25 SQ. FT.)		EADA
WORK ZONE SIGNS (16.26 SQ. FT. & OVER)		EADA
WORK ZONE BARRICADES (TYPE III – 4' TO 12')		EADA
CHANNELIZER (FIXED)		EADA
CHANNELIZER (PORTABLE)		EADA
WORK ZONE WARNING LIGHT (TYPE "A" LOW INTENSITY)		EADA
WORK ZONE WARNING LIGHT (RED TYPE "B" HIGH INTENSITY)		EADA
ARROW DISPLAY		EADA
PORTABLE CHANGEABLE MESSAGE SIGN		EADA
PAVEMENT MARKING (TEMPORARY)		
4" SOLID (TYPE I TAPE)		STA./LINE
4" SOLID (TYPE II TAPE)		STA./LINE
4" BROKEN (8.2') (TYPE I TAPE)		STA./LINE
4" BROKEN (8.2') (TYPE II TAPE)		STA./LINE
4" BROKEN (3.3') (TYPE I TAPE)		STA./LINE
4" BROKEN (3.3') (TYPE II OR IIA TAPE)		STA./LINE
4" BROKEN (3.3') (FLEXIBLE RAISED PAVEMENT MARKER)		STA./LINE
4" DOTTED EXTENSION (TYPE I TAPE)		STA./LINE
4" DOTTED EXTENSION (TYPE II TAPE)		STA./LINE
SOLID (LINE MASKING TAPE)		STA./LINE
BROKEN (LINE MASKING TAPE)		STA./LINE
PAVEMENT MARKING REMOVAL		LIN. FT.
CONCRETE SAFETY BARRIER (TYPE F3) (TEMPORARY)		LIN. FT.
CONCRETE SAFETY BARRIER (TYPE F3) (TEMPINSTALL ONLY)		LIN. FT.
CONCRETE SAFETY BARRIER (TYPE F3) (TEMPRELOCATE)		LIN. FT.
INERTIAL BARRIER SYSTEM		EACH
REPLACEMENT MODULES		EACH
WORK ZONE SIGN (SPECIAL) (16.25 SQ. FT. & LESS)		EACH
WORK ZONE SIGN (SPECIAL) (16.26 SQ. FT. & OVER)		EACH
TEMPORARY RAISED PAVEMENT MARKER (TYPE I)		EACH
TEMPORARY RAISED PAVEMENT MARKER (TYPE II)		EACH
TRAFFIC SIGNAL INSTALLATION (TEMPORARY)		LUMP SUM
TRAFFIC CONTROL (INITIAL SET UP)		LUMP SUM
TRAFFIC CONTROL	LUMPSUM	LUMP SUM
FLAGGER (SET PRICE)	1	HOUR
TWORKS SIGN ASSEMBLY (SMALL)		EACH
TWORKS SIGN ASSEMBLY (LARGE)		EACH

1 NO.	2-1-05 DATE	CONSTR. SIGN SPECIAL CHART B.H. A.A REVISIONS BY AP					
NO. DATE REVISIONS BY APP'D KANSAS DEPARTMENT OF TRANSPORTATION							
SUMMARY OF DEVICES							
AND							
RECAPITULATION OF QUANTITIES							
	RI	CAPITUL ATION	OF QUANTITIES				
TE795	RI	ECAPITULATION	OF QUANTITIES	9/1/00			
TE795 FHWA APP		ECAPITULATION	OF QUANTITIES	9/1/00			
	ROVAL 8-8-07	DETAILED B.A.H.		9/1/00			

NOTES:

Co.	Proj. No.	Title:	

Figure 20.10

SUMMARY OF TRAFFIC CONTROL DEVICES (EACH PER DAY)

* QUANTITY MOST USED ON THE PROJECT AT ANY ONE TIME

		WOR	K ZO	IE SIGN	S *		
	SIGN			SIZE – S	Q. FT.		
	NO.	0-9.2	5	9.26-1	6.25	16.26 & O\	/ER
W	V20-2A						
K	(l-104a						
٢							
				DEVICES	*		
WORI	K ZONE WAF			JEVICES	,	1	
(TYPE	E "A" LOW IN K ZONE WAF	TENSITY)				_	
	TYPE"B" HIG						
ARRC	OW DISPLAY						
PORT	ABLE CHAN	GEABLE ME	SSAGE	SIGN			
	BARRIC	ADES *	СНА	NNELIZI	NG DEV	ICES *	
		4' TO 12')		IXED		ABLE	
.							
SUMMARY OF TRAFFIC CONTROL DEVICES (EACH)							

WORK ZONE SIGN (SPECIAL)							
SIGN NO. 16.25 SQ. FT. & LESS 16.26 SQ. FT. & OVER							

REPLACEMENT MODULES (FOR INFO ONLY)

F-200	
F-400	
F-700	
F-1400	
F-2100	

RECAPITUL	TION OF QUAN	TITIES		
ITEM		QUANTITY	'	UNIT
WORK ZONE SIGNS (0 TO 9.25 SQ. FT.)				EADA
WORK ZONE SIGNS (9.26 TO 16.25 SQ. F	Г.)			EADA
WORK ZONE SIGNS (16.26 SQ. FT. & OVE	R)			EADA
WORK ZONE BARRICADES (TYPE III - 4'	FO 12')			EADA
CHANNELIZER (FIXED)				EADA
CHANNELIZER (PORTABLE)				EADA
WORK ZONE WARNING LIGHT (TYPE "A"	LOW INTENSITY)			EADA
WORK ZONE WARNING LIGHT (RED TYP	E "B" HIGH INTENSITY)			EADA
ARROW DISPLAY				EADA
PORTABLE CHANGEABLE MESSAGE SIG	N			EADA
PAVEMENT MARKING (TEMPORARY)				
4" SOLID (TYPE I TAPE)				STA./LINE
4" SOLID (TYPE II TAPE)				STA./LINE
4" BROKEN (8.2') (TYPE I TAPE)			5	STA./LINE
4" BROKEN (8.2') (TYPE II TAPE)			:	STA./LINE
4" BROKEN (3.3') (TYPE I TAPE)			:	STA./LINE
4" BROKEN (3.3') (TYPE II OR IIA TAPE			:	STA./LINE
4" BROKEN (3.3') (FLEXIBLE RAISED F	AVEMENT MARKER)		3	STA./LINE
4" DOTTED EXTENSION (TYPE I TAPE			;	STA./LINE
4" DOTTED EXTENSION (TYPE II TAPE)			STA./LINE
SOLID (LINE MASKING TAPE)				STA./LINE
BROKEN (LINE MASKING TAPE)				STA./LINE
PAVEMENT MARKING REMOVAL				LIN. FT.
CONCRETE SAFETY BARRIER (TYPE F3)	(TEMPORARY)			LIN. FT.
CONCRETE SAFETY BARRIER (TYPE F3)	(TEMPINSTALL ONLY)			LIN. FT.
CONCRETE SAFETY BARRIER (TYPE F3)	(TEMPRELOCATE)			LIN. FT.
INERTIAL BARRIER SYSTEM				EACH
REPLACEMENT MODULES				EACH
WORK ZONE SIGN (SPECIAL) (16.25 SQ.	FT. & LESS)			EACH
WORK ZONE SIGN (SPECIAL) (16.26 SQ.	FT. & OVER)			EACH
TEMPORARY RAISED PAVEMENT MARK	ER (TYPE I)			EACH
TEMPORARY RAISED PAVEMENT MARK	R (TYPE II)			EACH
TRAFFIC SIGNAL INSTALLATION (TEMPO	RARY)		L	UMP SUM
TRAFFIC CONTROL (INITIAL SET UP)		LUMPSUM	L	UMP SUM
TRAFFIC CONTROL			L	UMP SUM
FLAGGER (SET PRICE)		1		HOUR
TWORKS SIGN ASSEMBLY (SMALL)				EACH
TWORKS SIGN ASSEMBLY (LARGE)				EACH
0		•	MP	
2 12-29-05 ADDED	C REVISION YPE A & RED TYPE B LIGHTS		M.B. B.H.	A.A.A. A.A.A.
1 2-1-05 CONSTF NO. DATE	SIGN SPECIAL CHART REVISIONS		B.H. BY	A.A.A. APP'D

2	2 12-29-05 ADDED TYPE A & RED TYPE B LIGHTS						
1	2-1-05	CONSTR. SIGN SPECIAL	CHART	B.H.	A.A.A.		
NO.	DATE	RE	VISIONS	BY	APP'D		
	KANSAS DEPARTMENT OF TRANSPORTATION						
	SUMMARY OF DEVICES						
AND							
RECAPITULATION OF QUANTITIES							
TE795 9/1/00							
FHWA APPRO	VAL 8-8-07		APP'D Anthony A. A	Alrobaire			
DECIGNED D	A 11		OLIANITITIEC	TDACED			

QUANT. CK

TRACE CK.

DETAIL CK.

	LEC.
INO I	LO.

Co.	Proj. No.	Title:

DESIGN CK.

Figure 20.11

CCLIP-SP Resurfacing Construction Cost Estimate

Project No. (K) or (US) -__-_ U-___-01 FISCAL YEAR 20__ ___ Highway (_____ Street/Avenue), (from _____ Street to _____ Street) Date: _____

BID ITEM UNIT UNIT BID PRICE KDOT ELIGIBLE QUANTITY KDOT ELIGIBLE COST NON- ELIGIBLE COST \$ \$ \$ \$ \$ \$ \$ ELIGIBLE COST COST ELIGIBLE COST COST ELIGIBLE COST COST ELIGIBLE COST COST \$ <th>BID ITEM</th> <th>UNIT</th> <th>חום דוואו</th> <th>KDOT</th> <th>KDOT</th> <th></th> <th>NON</th>	BID ITEM	UNIT	חום דוואו	KDOT	KDOT		NON
QUANTITY COST QUANTITY COST \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$		UNIT					
S S S S S S <td></td> <td></td> <td>PRICE</td> <td></td> <td></td> <td></td> <td></td>			PRICE				
S S S S S <				QUANTITY	COST	QUANTITY	COST
S S S S S <							
Image: second							
Image: second							
\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ <							
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GRAND TOTAL (Eligible+Non-Eligible Items): \$	TOTALS:						
	GRAND TOTAL (Elig	gible+Nor	n-Eligible Item	ns):			\$

Estimated Number of Working Days



Authority to Advertise CCLIP-SP Project

Date: x/xx/20xx

City of xxxxxx, KS

Project Number XX U-XXXX-01

The Bureau of Local Projects has approved the Plans, Specifications, and Estimate (PS&E) for the referenced project. Therefore the City is hereby authorized to take bids for contract after a minimum 30-day advertisement.

This is a City-administered project utilizing State funds. The City is responsible for verifying that all bidders are eligible and listed on KDOT's pre-qualified list. The link to KDOT's pre-qualified contractors can be found at: <u>http://www.ksdot.org/hwycont.asp</u>.

After the lowest responsible bidder has been identified, the City is required to submit the project bid tabs and other project bidding documents to the Bureau of Local Projects (via email) for review. Upon satisfactory review, authorization from the Bureau of Local Projects will be given to the City via a separate document to award the contract and issue the Notice to Proceed.

(BLP Project Manager) (Title) (XXX) XXX-XXXX xxxx.xxx@ks.gov

CCLIP-SP PROJECT CERTIFICATION OF BID DOCUMENTS

Project Number	-
Project Description	
Date of Bid Letting	-
Name of Recommended Contractor	
Amount of Recommended Bid	

The City of ______, KS certifies that the bid documents from all bidders have been reviewed and that the review indicates there is no evidence of fraud or collusion.

(City Official)

(Date)

Authority to Award CCLIP-SP Project Date: XX/XX/XXXX City of XXXXXXX, KS Project Number XX U-XXXX-01

The BLP has reviewed the bid documents for the referenced project and concurs with the City's recommendation to award the contract to ______.

After the contract has been approved by the City and signed by all parties, please forward an electronic copy of the signed contract and pertinent documents to the Bureau of Local Projects (via email). Also, please forward the below-listed milestone dates as they occur:

- Notice to Proceed Date
- Actual Work Start Date (may be the same as the Notice to Proceed)
- Date Work Completed
- Notice of Acceptance Date (from KDOT Area Engineer)

(BLP Project Manager) (Title) (XXX) XXX-XXXX xxxx.xxx@ks.gov

CCLIP-SP Resurfacing Final Construction Cost Expenses

Project No. (K) or (US) -__-_ U-___-01 FISCAL YEAR 20__ ____ Highway (_____ Street/Avenue), (from _____ Street to _____ Street) Date: _____

UNIT BID KDOT **BID ITEM** UNIT KDOT NON-NON PRICE ELIGIBLE ELIGIBLE ELIGIBLE ELIGIBLE QUANTITY COST QUANTITY COST (Actual) (Actual) \$ TOTALS: \$ \$ GRAND TOTAL (Eligible+Non-Eligible Items):

Date: Final Summary of Construction Engineering (CE) Expenses (ACTUAL):

CCLIP-SP Resurfacing Project Project No. (US)XX-XX U-XXXX-01, FY 20____ US-24, (Tenth Street), from the SCL north to Elm Street.

Payroll Expenses:	PARTICI	PATING:		
Inspector Snyder, Bill Woods, Tiger Vermeil, Dick Nicklaus, Jack Sub-Total:	<u>Title</u> ENGR ET IV ET III ET II	<u>Rate</u> \$72.00 \$55.00 \$50.00 \$45.00	Hours 14.00 1.00 65.00 10.00	<u>Amount</u> \$1,008.00 \$55.00 \$3,250.00 \$450.00 \$4,763.00
Overhead:		141.04%		\$6,717.74
Materials Testing:				\$240.00
Additional Expenses (N Supplies: Mileage (Personal Veh Total PARTICIPATING		\$7.40 \$59.78 \$81.60 \$7,106.52		
	·			
Payroll Expenses:	NON-PAF	RTICIPATING:		
<u>Inspector</u> Snyder, Bill Woods, Tiger Vermeil, Dick Nicklaus, Jack Sub-Total:	<u>Title</u> ENGR ET IV ET III ET II	<u>Rate</u> \$72.00 \$55.00 \$50.00 \$45.00	<u>Hours</u> 2.00 5.00 14.00 6.00	Amount \$144.00 \$275.00 \$700.00 \$270.00 \$1,389.00
Overhead:		141.04%		\$1,959.05
Materials Testing:				\$80.00
Additional Expenses (N Supplies: Mileage (Personal Veh		\$2.50 \$16.00 \$7.50		
Total Non-Participati		\$2,065.05		
Grand Total CE Expense (Eligible+Non-Elig. CE)				\$9,171.56

ACTUAL PE-Utility Cost SUMMARY FORM

Please COMPLETE this form and return to BLP

The ACTUAL PE-Utility cost consists of **ALL** of the PE and Utility adjustment costs that have been incurred by the time the CCLIP-SP Project has been completed to substantial compliance and acknowledged by the KDOT Area Engineer.

City:	State Fiscal Year
CCLIP-SP Project Number	NOA Date
 Total ACTUAL Preliminary Engineering (Design Total ACTUAL Utility Adjustment Cost: 	n) Cost:
3. Comments:	

I hereby certify that the above ACTUAL costs are correct to the best of my knowledge and belief.

Signature of City Official

Position

Date

For questions please contact the BLP Project manager at (785) 296-3861.

Note: This information is required by the Kansas Legislature.

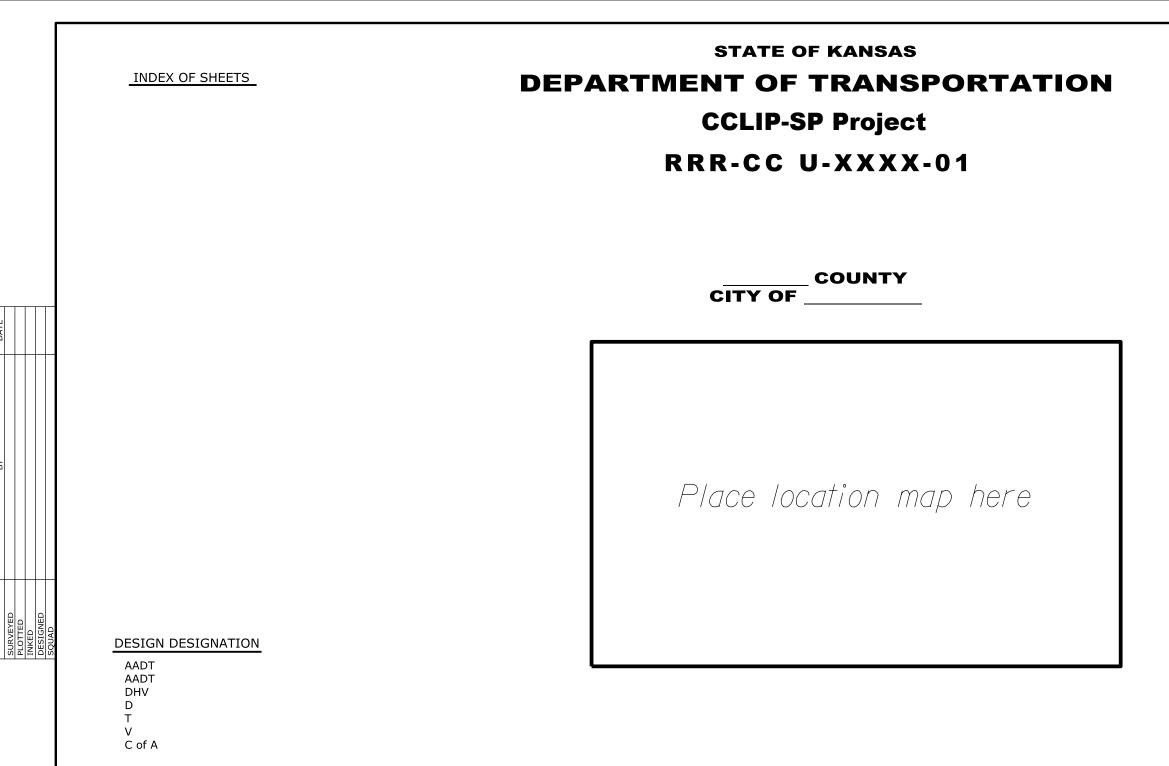
CCLIP-SP PROJECT REIMBURSEMENT SUMMARY FORM

1	(for <u>ACTUAL</u>	Construction	and Constr	notion En	aimaamima	(CE) I	l v m o m o o n	$\bigcap_{m} 1_{m} (\lambda)$
t		CONSTRUCTION	and Consu	испон ел	eneerine.	(С.Г.) Г	v nenses	Univi
`	101 110 1 01111	0011011 0001011	and conou	wenon bn	B	(02)2		<i>c</i> ,,

The City official must complete this form and submit it along with detailed billing to obtain reimbursement for the CCLIP-SP Project

Agreement Number	Date
Project No.	Fiscal Year:
Project Description	
Project Scope, i.e., Type of Work Done:	
Project Length (ft. or miles)	City Phone:
City of, KS	Consultant Phone:
1. Actual Project Eligible (participating) Construction Cost:	
2. Actual Project Non-Eligible (non-participating) Construction Cost:	
Total Actual Construction Cost:	
3. Actual Project Eligible (participating) Construction Engineering Cost:	(1) + (2)
4. Actual Project Non-Eligible (non-participating) Construction Engineering Cost:	
Total Actual Construction Engineering Cos	t:
	(3) + (4)
5. Gross Project Cost (Total Construction + Total Construction Engineering):	(1) + (2)+(3) + (4)
6. LESS ADJUSTMENTS Item No. 2 abov	/e:
Item No. 4 abov	ve:
Subtotal:	
7. Has the contractor been paid in full? YES NO	(1) + (3)
8. Does the City desire reimbursement by Electronic Deposit? YES NO	FEIN No.

9. I hereby certify that the above bill is correct, and remains due and unpaid, and that the amount claimed therein is actually due according to the law (Claimant signature, position, and date required for payment).



CONVENTIONAL SIGNS

COUNTY LINE	
CITY LIMITS	
STATE OR NATIONAL LINE	_
TOWNSHIP, SECTION or GRANT LINE	
PROPERTY LINE	
HIGHWAY FENCE	
EXISTING FENCE	
GUARDRAIL	
CONSTRUCTION LIMITS	
RIGHT OF WAY LINE	
TRAVELED WAY	-=====
RAILROADS	

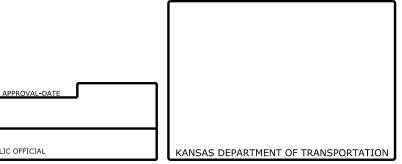
	CENTER LINE OF PROJECT	50 1
	TERRACE	
_	CULVERTS	
	DROP INLET & STORM SEWER	
	ACCESS CONTROL	
	POWER POLE	
×	TELEPHONE POLE	+
_	MARSH	<u>A</u>
	HEDGE	
	TREES	စစစ း
2	PROFILE ELEVATION	
-	STREAM or CREEK	$> \cdots - \cdots$

GROSS LENGTH OF PROJECT	FT.
EXCEPTIONS	FT.
ADDITIONS	FT.
NET LENGTH OF PROJECT	FT.
NET LENGTH OF BRIDGES	FT.
NET LENGTH OF ROAD	FT.

MILES MILES MILES

RECOM.	FOR /
LOCAL	PUBL

STATE PROJECT NO.	YEAR	SHEET NO.	TOTAL
	12,40	SHEET NO.	SHEETS
KANSAS			



CADconform Certify This File

ITEMS REQUIRED FOR REIMBURSEMENT

PROJECT No.:

□ Notice of Award

□ Signed Contract Documents

□ "State of Kansas Project Completion Certification" (KDOR Form PR-77)

Certification of Completion Letter

□ Notice of Acceptance by KDOT Area

□ Final Summary of Construction Expenses

(separate participating from non-participating)

□ Change Orders

□ Final Summary of Actual CE Expenses

□ Actual PE (Design) / Utility Cost Summary Form

□ Project Reimbursement Summary Form

STATE OF KANSAS PROJECT COMPLETION CERTIFICATION

ТО:					
Name of Entity to whom Project Exemption Certificate was Issued					
Street Address	City	State	ZIP		
This is to certify, to the best of my	knowledge and belief, that all materi	als purchased under Exemp s Department of Revenue, we			
building or project for which the ex or (cc), as amended.	emption was issued and were entitled	-	-		
Contractor / Subcontractor					
P.O. Box and/or Street Number a	nd Name				
Street Address	City	State	ZIP		
Signature and Title of Authorized	Representative	Date			

INSTRUCTIONS

Upon completion of a tax exempt project, the contractor must furnish this certification to the taxpayer for which the work was performed. A copy of this certification must also be forwarded to the Kansas Department of Revenue, Office of Policy and Research, 915 SW Harrison Street, Room 230, Topeka, Kansas 66612-1588. All invoices must be retained by the contractor for a period of five (5) years and are subject to audit by the Kansas Department of Revenue.