

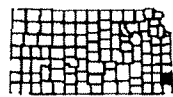
160 19 KA 5087-01
 N Jct US 160/US 69 to Mo State Line
 2.5" Mill & 2" overlay

LEGEND

ROADS AND ROADWAY FEATURES	ROADS BY FUNCTION
Controlled Access - Interstate	Post Secondary System
Controlled Access - RTA	Interstate Numbered Highway
US Route - Limited	US Numbered Highway
US Route - Unimproved	State Highway System or State Numbered Highway
State Route - Limited	Local of Classifications System or Market Road
State Route - Unimproved	County - Local Authority
RD Route - Paved	
RD Route - Unimproved	
Minor Road - Paved	
Minor Road - Stone or Gravel	
Minor Road - Soil	



LAMBERT CONFORMAL CONIC PROJECTION



RS SYSTEM REVISED TO AUGUST 30, 2005

GENERAL HIGHWAY MAP
CRAWFORD COUNTY
 KANSAS

PREPARED BY THE
 KANSAS DEPARTMENT OF TRANSPORTATION
 BUREAU OF TRANSPORTATION PLANNING
 IN COOPERATION WITH THE
 U.S. DEPARTMENT OF TRANSPORTATION
 FEDERAL HIGHWAY ADMINISTRATION



AUGUST, 2007

COMPUTER GENERATED



General Notes

9/13/2018

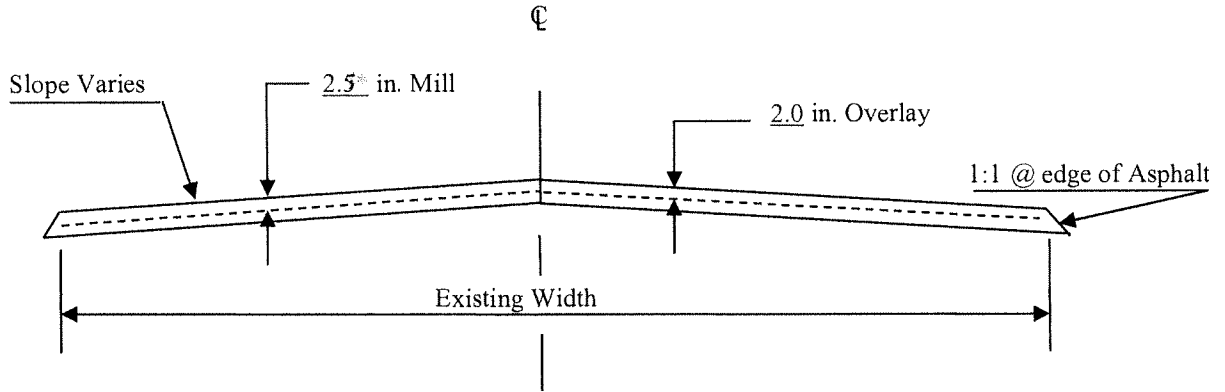
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Project No. 160- 19 KA 5087-01

Note

- 1 Milling: All milling shall become the property of the contractor and shall be disposed of at a site approved by the Engineer.
- 2 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.
- 3 A small stockpile of material milled from the project is available for use in developing preliminary mix designs for bidding purposes. The stockpile is located at KDOT's Pittsburg mixing strip on US 69 just north of the Kansas Crossing Casino. The stock pile is located on the west side of the strip. Two piles are present at that location. The north pile is from US-160 and is marked with a sign noting the route and county (160-19) from which the Material was obtained. Contractors can obtain a sample at their convenience.
- 4 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.
- 5 Quantities for the milling are based on a 2 ½" nominal depth (2.0" in curb and gutter section) 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 ½".
- 6 When milling mainline areas, a full width mill head will be required to maintain cross slope of the existing lane being milled in one pass. A smaller mill head will be allowed on miscellaneous areas as approved by the engineer but will not be allowed to perform mainline milling.
- 7 Milling thickness shall be adjusted at bridge approaches and grade crossings to allow a reasonable transition.

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).

ROADWAY WIDTHS

Location	mile	Approx. Width	Location	mile	Approx. Width
100+00-105+41 Trans to 2 In	0.102	48-24	309+61-312+07 Widening	0.047	0-12
105+41-134+42	0.549	24	311+07-315+13 Widening	0.058	12
134+42-137+42 Trans to c&g	0.057	24-48	315+13-317+59 Widening	0.047	12-0
See Typ Section for C & G	-	-	317+59-352+48	0.661	24
166+19-171+04 Trans out c&g	0.092	48-24			
171+04-198+84	0.526	24			
198+84-201+30 Widening	0.047	0-12			
201+30-205+24 Widening	0.075	12			
205+24-207+70 Widening	0.047	12-0			
198+84-209+42	0.200	24			
201+45-203+91 Widening	0.047	0-12			
203+91-206+96 Widening	0.058	12			
206+96-209+42 Widening	0.047	12-0			
209+42-307+00	1.848	24			
307+00-309+46 Widening	0.047	0-12			
309+46-313+38	0.074	12			
313+38-315+84 Widening	0.047	12-0			
307+00-317+59	0.201	24			

RATE OF APPLICATION

Quantity based on SR- 12.5A @0.1088 T/yd²

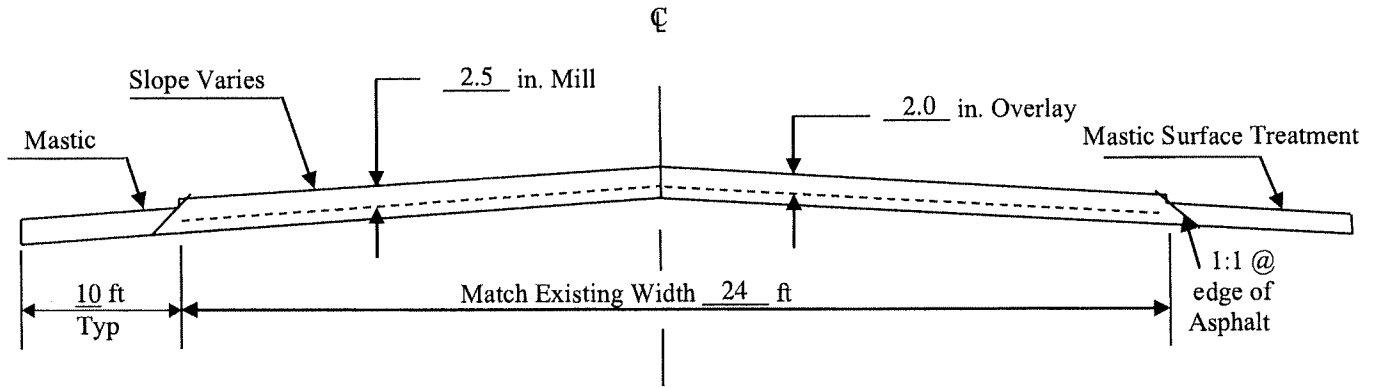
PG 70 - 28

SS-IHP @ 0.05 gal/yd²

Millings Computed @ 145 lb/ft³

	Date: 9/7/2018 8:54 AM	KANSAS DEPARTMENT OF TRANSPORTATION
Crawford Co.	PROJ. NO.160-19 KA 5087-01	TITLE: MILLOL

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.

ROADWAY WIDTHS

Location	mile	Approx. Width	Location	mile	Approx. Width
Mastic Surface treatment applied to all shoulders not included in mill & overlay action.					
Mastic Surface Treatment					
Sta. 100+00 to 134+42	0.652	10 ft.			
Sta. 134+42 to 137+42 (begin C&G)	0.057	10 - 0 ft.			
Sta. 166+19 (end C&G) to 171+04	0.092	0 - 10 ft.			
Sta. 171+04 to 352+48	3.436	10 ft.			

RATE OF APPLICATION

Mastic Surface Treatment:
2 Applications - Total 0.25 gal/SqYd

RECAPITULATION OF QUANTITIES			
ITEMS		TOTAL	UNITS
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(4")			Inft
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(6")		51,708	Inft
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(8")			Inft
PAVEMENT MARKING (MULTI-COMPONENT)(WHITE)(12")			Inft
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(4")		24,693	Inft
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(6")			Inft
PAVEMENT MARKING (MULTI-COMPONENT)(YELLOW)(12")		200	Inft
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(4")			Inft
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(6")			Inft
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(8")			Inft
PAVEMENT MARKING (THERMOPLASTIC)(WHITE)(12")			Inft
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(4")			Inft
PAVEMENT MARKING (THERMOPLASTIC)(YELLOW)(6")			Inft
PAVEMENT MARKING (THERMOPLASTIC)(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")		65	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)	13	EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)	(WHITE) (Rt Turn Arrow)	7	EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)	(WHITE) (ONLY)		EACH
PAVEMENT MARKING SYMBOL (INTERSECTION GRADE)	(WHITE) (Rt/Thru Arrow)		EACH
PAVEMENT MARKING REMOVAL		3,348	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

**SUMMARY OF TRAFFIC CONTROL DEVICES
(FOR INFORMATION ONLY)**

All traffic control devices shall be placed in accordance with the applicable 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. Contractor operations may require additional signs and traffic control devices, this will be subsidiary to the bid item traffic control.

WORK ZONE SIGNS *			
SIGN NO.	SIZE - SQ. FT.		
	0-9.25	9.26-16.25	16.26 & OVER
R2-1			
R4-1	4		
W3-4		4	
W3-5			
W8-11			
W14-3		4	
W20-1		4	
W20-4		4	
W20-5			
W20-7		6	
W21-5			
KG20-5	4		
W8-15		2	
W8-15p	2		
W1-4R		4	
W13-1	4		
KM4-20			
KG20-2	8		
KI-104a		2	
KI-105a		2	

LIGHTED DEVICES *	
WORK ZONE WARNING LIGHT (TYPE "A" LOW INTENSITY)	
WORK ZONE WARNING LIGHT (RED TYPE "B" HIGH INTENSITY)	
ARROW DISPLAY	
PORTABLE CHANGEABLE MESSAGE SIGN	

BARRICADES *		CHANNELIZING DEVICES *		
TYPE III (4' TO 12')	PEDESTRIAN	FIXED	PORTABLE	PEDESTRIAN
			72	

**SUMMARY OF TRAFFIC CONTROL DEVICES
(EACH)**

WORK ZONE SIGN (SPECIAL)		
SIGN NO.	16.25 SQ. FT. & LESS	16.26 SQ. FT. & OVER

RECAPITULATION OF QUANTITIES

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 3 - 4' TO 12')		EADA
WORK ZONE BARRICADES (PEDESTRIAN)		EADA
CHANNELIZER (FIXED)		EADA
CHANNELIZER (PORTABLE)		EADA
CHANNELIZER (PEDESTRIAN)		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)		STA./LINE
4" SOLID (TYPE II)		STA./LINE
4" BROKEN (8")(TYPE I)		STA./LINE
4" BROKEN (8")(TYPE II)		STA./LINE
4" BROKEN (3')(TYPE I)		STA./LINE
4" BROKEN (3')(TYPE II)		STA./LINE
4" DOTTED EXTENSION (TYPE I)		STA./LINE
4" DOTTED EXTENSION (TYPE II)		STA./LINE
SOLID (LINE MASKING TAPE)		STA./LINE
BROKEN (LINE MASKING TAPE)		STA./LINE
SYMBOL (TYPE I)		EACH
SYMBOL (TYPE II)		EACH
FLEXIBLE RAISED PAVEMENT MARKERS (4" BROKEN (8'))		STA./LINE
FLEXIBLE RAISED PAVEMENT MARKERS (4" BROKEN (3'))	252.5	STA./LINE
PAVEMENT MARKING REMOVAL		LIN. FT.
CONCRETE SAFETY BARRIER (TYPE F3) (TEMPORARY)		LIN. FT.
CONCRETE SAFETY BARRIER (TYPE F3) (TEMP.-INSTALL ONLY)		LIN. FT.
CONCRETE SAFETY BARRIER (TYPE F3) (TEMP.-RELOCATE)		LIN. FT.
INERTIAL BARRIER SYSTEM		EACH
REPLACEMENT MODULES (IBS)		EACH
WORK ZONE SIGN (SPECIAL) (16.25 SQ. FT. & LESS)		EACH
WORK ZONE SIGN (SPECIAL) (16.26 SQ. FT. & OVER)		EACH
RIGID RAISED PAVEMENT MARKER (TYPE I)		EACH
RIGID 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

NOTES: Quantities shown represent 2 setups for signs and cones based on TE 731.

3				
2				
1	11/10/16	Removed Replacement Modules Summary Table, Added "IBS" to Replacement Modules description	JGB	
NO.	DATE	REVISIONS	BY	APP'D
KANSAS DEPARTMENT OF TRANSPORTATION				
TRAFFIC CONTROL SUMMARY OF DEVICES RECAPITULATION OF QUANTITIES				
TE796				
FHWA APPROVAL	06/01/15	APP'D	Kristina Erickson	
DESIGNED	B.A.H.	DETAILED	R.W.B.	QUANTITIES
DESIGN CK.		DETAIL CK.		QUAN. CK.
				TRACED
				TRACE CK.

CRAWFORD Co.

Proj. No. 160-19 KA 5087-01

Title: