F.A.U. RTE.	SECTION	(COUNT	TOTAL SHEETS	SHEET NO.	
3887	96-00159-00	-CH	KAN	E	70	38
STA		то	STA.			
FED.	ROAD DIST. NO.	ILLINOIS	FED.	AID	PROJECT	•

SEQUENCE OF OPERATION

			1		1 11			Г—	1.0			1		1	·											_	_										
MOVEMENT N	LA <u>W</u>			5		KIMI	BALL -	P(,]	#	_ 	5 2	#		***************************************	P.] 6	<u></u>	#-		-			OL OL		-	# # # # # # # # # # # # # # # # # # # #	4	8 3	4-		ı ¬P	- -	#	- 8	F L A
PHASE				1 +	5				1 .	+ 6			2 +	5				2 +	- 6							3 +	8						4 +	⊢ 8			s
INTERVAL	1	2A	2B	ЗА	3B	4A	4B	5	6	7A	7B	8	9A	9B	10	11	12A	12B	13A	13B	14A	14B	15	16 1	7A 1	7B 1	17C	17D	18A	18B	19	20	21A	21B	21C	21D	Н
CHANGE TO		1 -	+ 6	2	+ 5	2	+ 6	9/	9	2	+ 6		2 +	- 6		/	1+5,	3+8 +8	1 +	6	2 +	5	\angle	1	1 2	+5,1 +5.2	+6		4 -	+ 8	$\overline{\ }$	$\overline{\ }$		1+5,: 2+5.	1+6 2+6		
IL 31 NB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	Υ	R	Υ	R	G	G	R	R		_	R	R	R	R	R	R	R	R	R	R	R
IL 31 NB END MAST ARM AND FAR LEFT SIGNALS	- -G	← Y	← R	← G	← G	+Y	←R	←R	←R	← R	←R	← G	← Y	←R	←R	≠R	- -R	← R	←R	← R	⊷R	+-R	+-R	-R -	-R -	-R -	←R	← R	R	←R	← R	- -R	←R	←R	← R	- -R	R
IL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	G	G	G	G	R	R	R	G	G	Υ	R	G	G	Υ	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
IL 31 SB END MAST ARM AND FAR LEFT SIGNALS	- G	← G	← G	← Y	←R	- -Y	+-R	← G	← G	÷Υ	← R	+-R	←R	←R	←R	←R	← R	←R	← R	+-R	←R	←R	+-R	-R -	-R	-R	- R	← R	←R	←R	← R	← R	←R	←R	←R	←R	- -R
KIMBALL ST. AND WB NEAR SIDE SIGNALS ON CANTILEVER AND NEAR SIDE FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	G	G	G	G	Y	R	R	R	R
KIMBALL ST. WB FAR RIGHT MAST ARM	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	Y	R	G	G	G	G	G	G	Υ	R	R
KIMBALL ST. WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G -G	G -	G -	G -G	Y	R	G ←Y	G	G	G	G	G	Υ	R	R
LAWRENCE AVE. EB CENTER AND END MAST ARM FAR LEFT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	-				R	R	R	R	G	G	Υ	R	R	R	R
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	*P	FH	Н	н	н	Н	Н	Н	*P	ř#	Н	н	Н	Н	D
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	н	Н	Н	Н	н	Н	*P	** FH	Н	Н	Н	Н	A
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	Н	Н	Н	Н	Н	Н	Н	*P	FH	Н	Н	Н	Н	Н	*P	₹	Н	Н	Н	Н	Н	Н	н	н	н	Н	Н	Н	Н	Н	Н	Н	Н	н	н	Н	K

- * TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
- ** FLASHING "F" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE

PHASES 2+6 SHALL BE PLACED ON RECALL

THIS "A" OR FLASHING "TINTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "A" OR FLASHING "INTERVALS. "AND FLASHING" TIMINGS TO BE SET ONLY ON PHASES WHERE "AND FLASHING" ARE INDICATED IN THE SEQUENCE OF

RAILROAD PREEMPTION SEQUENCE OF OPERATION

													NUME	ER 3	NUME	ER 4	NUME	ER 5	NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1	!	5		8	1	0	1	5	1	9			17								
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER														2	:	3		4			,	,	
RAILROAD PREEMPTION SEQUENCE OF OPERATION NUMBER	1A	18	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	15	1T	2	3	4	5	CLEAR TO NORMAL
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	18	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	1T	2	3	4	5		SEQUENCE
IL 31 NB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	Y	R	Υ	R	R	R	R	R	Υ	R	R	R	R	R	R	R	R	G	Δ
IL 31 NB END MAST ARM AND FAR LEFT SIGNALS	← Y	← R	← R	←R	← Y	←R	←R	←R	←R	←R	←R	←R	 -Y	←R	←R	←R	←R	←R	←R	← R	←R	←R	Δ
IL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	Υ	R	R	R	Y	R	R	R	R	R	R	R	Υ	R	R	R	R	R	R	G	Δ
IL 31 SB END MAST ARM AND FAR LEFT SIGNALS	+Y	←R	← Y	←R	←R	←R	←R	←R	← R	←R	 R	←R	←R	←R	←Υ	←R	≁ -R	←R	←R	←R	←R	←R	Δ
KIMBALL ST. AND WB NEAR SIDE SIGNALS ON CANTILEVER AND NEAR SIDE FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	Υ	R	Y	R	R	R	R	R	Υ	R	R	R	R	R	Δ
KIMBALL ST. WB FAR RIGHT MAST ARM	R	R	R	R	R	R	R	R	G	G	G	G	R	R	R	R	G	G	G	Υ	R	R	Δ
KIMBALL ST. WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	G ←G	G ←G	G	G	R	R	R	R	G	G	G ←G	Υ	R	R	Δ
LAWRENCE AVE. EB CENTER AND END MAST ARM FAR LEFT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	Υ	R	R	R	R	R	Δ
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	н	Н	Н	FH	н	FH	Н	Н	Н	Н	н	Н	Н	Н	Н	н	Н	Δ
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	FH	Н	Н	Н	Н	Н	н	н	Н	Н	Н	Н	Δ
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	Н	Н	FH	Н	Н	Н	FH	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Δ
IL RTE 31 NB INTERNALLY ILLUMINATED NRT SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	
																						HOI D	

 Δ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

NRT = "NO RIGHT TURN" OR

PREEMPTOR PREEMPTOR PREEMPTOR



EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

																																			NUMBER 3	HOWDEN .	NUMBER 5	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		1		1	1			5		5	8		8		10			10			10				15			15			19			19				CLEAR TO
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1 J	1K	1L	1M	1N	1P	1Q	1R	15	1T	1U	1V	1W	1X	1Y	1Z :	LAA :	1BB 1	CC 1	DD 1E	E 1F	F 1G	G 1H	1 1 1 1	J 1KK	1LL	2	3	4	SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	3	1F	4	1H	1J	र्वे	3	2	1N	र्के	10	1R	2	1T	1U	3	1W	1X	4	1Z	1AA	івв :	icc	Î 11	EE 4	10	G 1H	H 1J	J 1KI	र र्दु	4				\Diamond
IL 31 NB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	G	Υ	R	G	G	G	G	Υ	R	G	Υ	R	R	R	R	R	RI	R F	₹ F	₹ R	R	R	R	R	G	R	R	\Diamond
IL 31 NB END MAST ARM AND FAR LEFT SIGNALS	← G	← G	← Y	←R	← Y	←R	←R	← R	←R	- -R	- -G	← Y	+-R	←R	←R	← R	- -R	- -R	←R	←R	←R	←R	←R	←R	←R	 R -	-R -	R -	R ←	R 🕶	R - F	₹ 4-1	₹ F	+-R	← G	←R	← R	\Diamond
IL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	G	Υ	R	G	R	R	R	G	Υ	R	G	G	G	G	Υ	R	R	R	R	R	R I	R F	₹ F	R	R	R	R	R	R	G	R	\Diamond
IL 31 SB END MAST ARM AND FAR LEFT SIGNALS	← Y	←R	← G	←G	← Y	←R	←G	- -Y	←R	← G	← R	←R	←R	+ R	+R	← R	← R	- -R	- -R	←R	- -R	←R	- -R	←R ·	←R	-R	-R +	-R -	R +	R +	R ←F	₹ +-1	₹ ← F	+-R	- -R	←G	←R	\Diamond
KIMBALL ST. AND WB NEAR SIDE SIGNALS ON CANTILEVER AND NEAR SIDE FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Υ	R	R	R	G (; (; Y	R	R	R	G	R	R	G	\Diamond
KIMBALL ST. WB FAR RIGHT MAST ARM	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G C	; (; G	G	Y	R	G	R	R	G	\Diamond
KIMBALL ST. WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G ←G	G.	G ←G	Υ	R 4	G C	Y	; G	G	Y	R	G	R	R	G	\Diamond
LAWRENCE AVE. EB CENTER AND END MAST ARM FAR LEFT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	\neg	R			R		٦ F	-	; Y	R	R	R	G	R	R	G	\Diamond
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	н	н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	FH	Н	н	Н	H F	Н	F	н н	Н	Н	Н	FH	н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF IL RTE 31	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	Н	н	Н	Н	π	Н	Н	Н	н	Н	Н	н	Н	Н	Н	н	F	н н	Н	Н	н	FH	Н	Н	Н	\Diamond
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	Н	Н	Н	Н	Н	н	FH	Н	Н	FH	Н	Н	Н	FH	Н	Н	FH	Н	Н	FH	Н	н	Н	Н	н	Н	Н	НН	1	{ Н	Н	Н	Н	Н	Н	Н	Н	\Diamond

SEMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY VEHICLE INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3 OR 4 IS TERMINATED.

NOTE: THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA WILL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION WILL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAYEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD. AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

PREEMPTOR PREEMPTOR PREEMPTOR

H = ILLUMINATED SOLID HAND = DON'T WALK

Robert H. Anderson & Associates, Inc. Consulting Engineers
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Phone - 630.584.3530 Fax - 630.584.3047

ILLINOIS DEPARTMENT OF TRANSPORTATION ILLINOIS ROUTE 31 AND WING STREET ILL. RTE. 31 AT KIMBALL STREET/LAWRENCE AVENUE

SEQUENCE OF OPERATIONS, EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATIONS, RAILROAD PREEMPTION SEQUENCE OF OPERATIONS

SCALE: VERT. HORIZ. NONE DATE: FEBRUARY 13, 2008