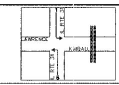
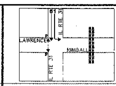
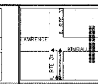
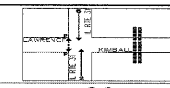
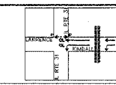
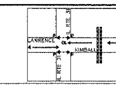
SEQUENCE OF OPERATION

MOVEMENT (N ↗)																																					FLASH
PHASE	1+5							1+6				2+5			2+6								3+8								4+8						
INTERVAL	1	2A	2B	3A	3B	4A	4B	5	6	7A	7B	8	9A	9B	10	11	12A	12B	13A	13B	14A	14B	15	16	17A	17B	17C	17D	18A	18B	19	20	21A	21B	21C	21D	
CHANGE TO		1+6		2+5		2+6		⊖	⊖	2+6			2+6				1+5, 3+8, 4+8		1+6		2+5				1+5, 1+6, 2+5, 2+6				4+8				1+5, 1+6, 2+5, 2+6				
ILL 31 NB CENTER AND FAR RIGHT MAST ARM AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	Y	R	Y	R	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL 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
ILL 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	Y	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL 31 SB END MAST ARM AND FAR LEFT SIGNALS	←G	←G	←G	←Y	←R	←Y	←R	←G	←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	←R	←R	←R
KIMBALL ST. 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	Y	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	G ←G	Y	R	G ←Y	G	G	G	G	G	Y	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	R	R	R	R	G	G	Y	R	R	R	R
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF ILL RTE 31	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	** FH	H	H	H	H	H	H	*P	** FH	H	H	H	H	DARK
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF ILL RTE 31	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	** FH	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	H	H	H	H	H	H	H	*P	** FH	H	H	H	H	H	*P	** FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	
LAWRENCE AVE. EB FLASHING BEACONS	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	DK	DK	FL Y	FL Y	FL Y	FL Y	FL Y

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING "(hand)" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

⊖ THIS "(person)" OR FLASHING "(hand)" INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "(person)" OR FLASHING "(hand)" INTERVALS.

P = ILLUMINATED PERSON = WALK
FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK
H = ILLUMINATED SOLID HAND = DON'T WALK

PHASES 2 AND 6 SHALL BE PLACED ON RECALL.

FL = FLASHING
DK = DARK

RAILROAD PREEMPTION SEQUENCE OF OPERATION

													PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 5		PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8		10		15		19												
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER													2		3		4						
RAILROAD PREEMPTION SEQUENCE OF OPERATION NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	2	3	4	5	CLEAR TO NORMAL SEQUENCE
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	1T	2	3	4	4		
ILL 31 NB CENTER AND FAR RIGHT MAST ARM SIGNALS AND NEAR RIGHT SIGNALS	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	△
ILL 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	△
ILL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	G	△
ILL 31 SB END MAST ARM AND FAR LEFT SIGNALS	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	△
KIMBALL ST. WB NEAR SIDE SIGNALS ON CANTILEVER AND NEAR SIDE FAR LEFT SIGNAL	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	Y	R	R	R	R	R	△
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	Y	R	R	△
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	Y	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	Y	R	R	R	R	R	Y	R	R	R	R	R	△
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF ILL RTE 31	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF ILL RTE 31	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
ILL 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	
LAWRENCE AVE. EB FLASHING BEACONS	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	
																						HOLD	

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

NRT = "NO RIGHT TURN" OR (sign)

FL = FLASHING
DK = DARK

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

																																				PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		1		1		5			5	8	8		10			10			10			15					15		19					19				
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	2	3	4	CLEAR TO NORMAL SEQUENCE
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	3	1F	4	1H	1J	2 OR 4	3	2	1N	3 OR 4	1Q	1R	2	1T	1U	3	1W	1X	4	1Z	1AA	1BB	1CC	2 OR 3	1EE	4	1GG	1HH	1JJ	1KK	2 OR 3	4				
ILL 31 NB CENTER AND FAR RIGHT MAST ARM SIGNALS AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◇
ILL 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	←R	←R	←R	←R	←G	←R	←R	◇
ILL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	G	Y	R	G	R	R	R	G	Y	R	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◇
ILL 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	←R	←R	←R	←R	←R	←G	←R	◇
KIMBALL ST. 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	Y	R	R	R	G	G	G	Y	R	R	R	G	R	R	G	◇
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	G	G	G	G	Y	R	G	R	R	G	◇
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 ←G	G ←Y	G	G	G	Y	R	G	R	R	G	◇
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	R	R	R	G	Y	R	R	R	G	R	R	G	◇
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF ILL RTE 31	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	FH	H	H	H	H	FH	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF ILL RTE 31	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	H	H	◇
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	H	H	H	H	H	H	FH	H	H	FH	H	H	H	FH	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◇
LAWRENCE AVE. EB FLASHING BEACONS	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	FL Y	DK	FL Y	FL Y	FL Y	FL Y	DK	FL Y	FL Y	DK	

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

FL = FLASHING
DK = DARK

FILE NAME = 4085.852–TR1.dwg	USER NAME = GHA	DESIGNED - JRD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SEQUENCE OF OPERATION, RAILROAD PREEMPTION SEQUENCE OF OPERATION, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION ILL RTE 31 (STATE ST) AT KIMBALL ST/LAWRENCE AVE	F.A.U. RTE. VARIES; SECTION 2009–105–TS; COUNTY KANE; TOTAL SHEETS 36; SHEET NO. 23
		DRAWN - ZCW	REVISED -			CONTRACT #: 60J01
	PLOT SCALE = 1" = .0833'	CHECKED - KLB	REVISED -		SCALE: N.A. SHEET NO. OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT
	PLOT DATE = 12/9/2009	DATE - 11/20/09	REVISED -			