

SEQUENCE OF OPERATION

MOVEMENT	LAWRENCE				KIMBALL				6				P				P				P																
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				1+5,3+8 4+8				1+5,1+6 2+5,2+6																
IL 31 NB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	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
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	
IL 31 SB CENTER AND FAR RIGHT MAST ARM, 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	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	←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	
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	R	R	R	R	R	R	R	R	R	R	R	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	R	R	R	R	R	R	R	R	R	R	R	R	R	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	R	R	R	R	R	R	R	R	R	R	R	R	R	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	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF IL 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	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF IL 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	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	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	H	H	H	H	H	H	H

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION
 ** FLASHING "Y" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE
 PHASES 2+6 SHALL BE PLACED ON RECALL

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

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

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
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2
IL 31 NB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	Y	R	Y	R
IL 31 NB END MAST ARM AND FAR LEFT SIGNALS	←Y	←R	←R	←R	←Y	←R	←R	←R
IL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	Y	R	R	Y	R	R
IL 31 SB END MAST ARM AND FAR LEFT SIGNALS	←Y	←R	←Y	←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	Y	R
KIMBALL ST. WB FAR RIGHT MAST ARM	R	R	R	R	R	R	G	G
KIMBALL ST. WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	G	G
LAWRENCE AVE. EB CENTER AND END MAST ARM FAR LEFT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R	Y	R
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF IL RTE 31	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF IL RTE 31	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	H	H	FH	H	H	FH	H	H
IL RTE 31 NB INTERNALLY ILLUMINATED NRT SIGNS	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT

△ 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

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
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	3	1F	4
IL 31 NB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R
IL 31 NB END MAST ARM AND FAR LEFT SIGNALS	←G	←G	←Y	←R	←Y	←R
IL 31 SB CENTER AND FAR RIGHT MAST ARM, NEAR RIGHT SIGNALS	R	R	R	R	R	R
IL 31 SB END MAST ARM AND FAR LEFT SIGNALS	←Y	←R	←G	←G	←Y	←R
KIMBALL ST. AND WB NEAR SIDE SIGNALS ON CANTILEVER AND NEAR SIDE FAR LEFT SIGNAL	R	R	R	R	R	R
KIMBALL ST. WB FAR RIGHT MAST ARM	R	R	R	R	R	R
KIMBALL ST. WB END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R
LAWRENCE AVE. EB CENTER AND END MAST ARM FAR LEFT AND NEAR RIGHT SIGNALS	R	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING NORTH LEG OF IL RTE 31	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING SOUTH LEG OF IL RTE 31	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING LAWRENCE AVENUE	H	H	H	H	H	H

◇ EMERGENCY 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, PAVEMENT, 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 SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

Robert H. Anderson & Associates, Inc.
 Consulting Engineers
 Timbers Professional Center
 220 West River Drive, St. Charles, IL 60174
 Phone - 630.584.3530 Fax - 630.584.3047

REVISIONS	
NAME	DATE

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. NONE
 HORIZ. NONE
 DATE: FEBRUARY 13, 2008

DRAWN BY: CMC
 DESIGN BY: CMC
 CHECKED BY: JS