F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
326	*	McHENRY	502	295
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT:		

* (105X & 106) WRS-2

△A EMERGENCY VEHICLE SEQUENCE OF OPERATIONS

	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	1MM	1NN	1PP	1QQ	1RR	1SS	1TT	1UU	PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	PREEMPTOR NUMBER 6	CLEAR TO NORMAL SEQUENCE
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1				1		1				5					5	8	8			11					11			11					16			16	19					19					
EMERGENCY VEHICLE PRE-EMPTION 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	1MM	1NN	1PP	1QQ	1RR	1SS	1TT	1UU	2	3	4	5	
CHANGE TO EMERGENCY VEHICLE PRE-EMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	1C	1D	2	1F	4	1H	1J	1K	3, 5	1M	1N	1P	1Q	2, 3, 5	4	2	1U	1V	3, 4, 5	1X	1Y	1Z	1AA	2	1CC	1DD	4	1FF	1GG	1HH	1JJ	3, 5	1LL	1MM	2, 4, 5	3	1QQ	1RR	1SS	1TT	2, 3, 4	5					
ILLINOIS ROUTE 47. NEAR RIGHT, RIGHT AND MID MAST ARM SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	G	G	G	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	R	◊
ILLINOIS ROUTE 47. FAR LEFT AND END MAST ARM SIGNALS N/B	←G	←G	←G	←G	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←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	←G	←R	←R	←R	◊
ILLINOIS ROUTE 47, NORTH OF TRACK RIGHT LOW MOUNT AND TWO RIGHT CANTILEVER SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	G	Y	R	R	R	G	R	R	R	R	G	Y	R	R	R	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
ILLINOIS ROUTE 47, NORTH OF TRACK MEDIAN LOW MOUNT AND TWO MEDIAN CANTILEVER SIGNALS S/B	←Y	←R	←R	←R	←G	←G	←Y	←R	←R	←R	←G	←Y	←R	←R	←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	←R	←R	←R	←G	←R	◊
ILLINOIS ROUTE 47, SOUTH OF TRACK NEAR RIGHT, RIGHT AND MID MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	R	R	R	R	G	G	G	Y	R	G	G	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	◊
ILLINOIS ROUTE 47, SOUTH OF TRACK FAR LEFT AND END MAST ARM SIGNALS S/B	←G	←G	←Y	←R	←G	←G	←G	←G	←Y	←R	←G	←G	←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	←R	←R	←R	←G	←R	◊
MAIN STREET. RIGHT AND MID MAST ARM SIGNALS E/B	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	G	Y	R	G	R	R	R	R	R	R	R	G	R	R	◊
MAIN STREET. FAR LEFT AND END MAST ARM SIGNALS E/B	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	G ←G	Y	R	G ←G	R	R	R	R	R	R	R	G ←G	R	R	◊
MAIN STREET, EAST OF TRACK RIGHT LOW MOUNT, MEDIAN LOW MOUNT AND CANTILEVER SIGNALS W/B	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	G	Y	R	R	R	G	R	R	R	G	◊
MAIN STREET, WEST OF TRACK RIGHT AND MID MAST ARM SIGNALS W/B	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	G	G	G	Y	R	G	R	R	R	G	◊
MAIN STREET, WEST OF TRACK FAR LEFT AND END MAST ARM SIGNALS W/B	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	G ←G	G ←G	G ←G	Y	R	G ←G	R	R	R	G ←G	◊
PEDESTRIAN SIGNALS CROSSING MAIN STREET. ON EAST SIDE OF ILLINOIS ROUTE 47.	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	FH	H	H	FH	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING MAIN STREET. ON WEST SIDE OF ILLINOIS ROUTE 47.	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING ILLINOIS ROUTE 47. ON NORTH SIDE OF MAIN STREET.	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	FH	H	H	H	H	FH	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING ILLINOIS ROUTE 47. ON SOUTH SIDE OF MAIN STREET.	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	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	◊

RAILROAD PREEMPTION SEQUENCE OF OPERATION △A

	1A	1B	1C	1D	1E	1F	1G	1H	1N	1P	1J	1K	1L	1M	1Q (PREEMPTOR NUMBER 3)	1R	1S (PREEMPTOR NUMBER 4)	1T	1U (PREEMPTOR NUMBER 5)	1V	1W (PREEMPTOR NUMBER 6)	1X	1Y	1Z	2 (PREEMPTOR NUMBER 2)	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8		11		16		19																		
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE INTERVAL NUMBER															2		3		4		5								
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1N	1P	1J	1K	1L	1M	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	2	3	4	5	
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1P	2	1K	1L	1M	2	1R	2	1T	2	1V	2	1X	1Y	1Z	2	3	4	5		
ILLINOIS ROUTE 47. NEAR RIGHT, RIGHT AND MID MAST ARM SIGNALS N/B	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	△
ILLINOIS ROUTE 47. FAR LEFT AND END MAST ARM SIGNALS N/B	←Y	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	△
ILLINOIS ROUTE 47, NORTH OF TRACK RIGHT LOW MOUNT AND TWO RIGHT CANTILEVER SIGNALS S/B	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	△
ILLINOIS ROUTE 47, NORTH OF TRACK MEDIAN LOW MOUNT AND TWO MEDIAN CANTILEVER SIGNALS S/B	←Y	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←Y	←R	←R	←R	←R	←R	←R	←R	←R	←R	△
ILLINOIS ROUTE 47, SOUTH OF TRACK NEAR RIGHT, RIGHT AND MID MAST ARM SIGNALS S/B	R	R	G	G	R	R	G	G	R	R	R	R	R	R	R	R	R	R	G	G	R	R	R	R	G	Y	R	R	△
ILLINOIS ROUTE 47, SOUTH OF TRACK FAR LEFT AND END MAST ARM SIGNALS S/B	←G	←G	←G	←G	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←R	←G	←G	←R	←R	←R	←R	←G	←Y	←R	←R	△
MAIN STREET. RIGHT AND MID MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	△
MAIN STREET. FAR LEFT AND END MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	△
MAIN STREET, EAST OF TRACK RIGHT LOW MOUNT, MEDIAN LOW MOUNT AND CANTILEVER SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	△
MAIN STREET, WEST OF TRACK RIGHT AND MID MAST ARM SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	G	△
MAIN STREET, WEST OF TRACK FAR LEFT AND END MAST ARM SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	G ←G	G ←G	Y	R	R	R	R	R	R	R	G ←G	G ←G	Y	R	R	R	R	G ←G	△
PEDESTRIAN SIGNALS CROSSING MAIN STREET. ON EAST SIDE OF ILLINOIS ROUTE 47.	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING MAIN STREET. ON WEST SIDE OF ILLINOIS ROUTE 47.	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING ILLINOIS ROUTE 47. ON NORTH SIDE OF MAIN STREET.	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING ILLINOIS ROUTE 47. ON SOUTH SIDE OF MAIN STREET.	H	H	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
																												HOLD	

◊ 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, 4 OR 5 IS TERMINATED.

△ 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.

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

GANDHI AND ASSOCIATES, INC.
ENGINEERS AND PLANNERS
6035 N. NORTHWEST HIGHWAY
SUITE 306
CHICAGO, ILLINOIS 60631 TEL. (773) 774-5910

REVISIONS	
NAME	DATE
ADDENDUM A	12/21/2009

ILLINOIS DEPARTMENT OF TRANSPORTATION

EMERGENCY VEHICLE SEQUENCE OF OPERATION & RAILROAD PREEMPTION SEQUENCE OF OPERATAION ILLINOIS ROUTE 47 AT MAIN STREET

SCALE: NONE

DATE: APRIL 17, 2009

DRAWN BY: MAA
DESIGNED BY: PKG/RRM
CHECKED BY: PKG/HPS

$FILEA$
12/14/2009
6:51:26 PM