

SEQUENCE OF OPERATION

MOVEMENT	← 6 →		← 6 →				← 6 →				← 6 →				← 6 →		← 6 →		F	L	A	S	H				
PHASE	1 + 6			2 + 6								3				4											
INTERVAL	1	2	3	4	5	6A	6B	6C	6D	7A	7B	7C	7D	8	9	10A	10B	11	12	13A	13B						
CHANGE TO	0	0	2+6			3								4					1+6 4								
GRAND AVE. AT 73RD AVE. (NORTH LEG) W/B ALL SIGNALS	G	G	G	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R				
GRAND AVE. AT 73RD AVE. (SOUTH LEG) W/B END MAST ARM AND FAR LEFT SIGNALS	G	G	G	G	G	G	G	Y	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R				
GRAND AVE. AT 73RD AVE. (SOUTH LEG) W/B FAR RIGHT SIGNAL	G	G	G	G	G	G	G	Y	R	G	G	G	G	R	R	R	R	R	R	R	R	R	R				
GRAND AVE. AT 73RD AVE. (SOUTH LEG) E/B ALL SIGNALS	R	R	R	G	G	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	R	R	R				
GRAND AVE. AT 73RD AVE. (NORTH LEG) E/B ALL SIGNALS	R	R	R	G	G	G	G	G	G	G	Y	R	G	G	Y	R	R	R	R	R	R	R	R				
73RD AVENUE (SOUTH LEG) FAR LEFT AND MIDDLE POST SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R				
73RD AVENUE (SOUTH LEG) NEAR & FAR RIGHT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	R	R	R	R	R				
73RD AVENUE (NORTH LEG) ALL SIGNALS	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 73RD AVE. (NORTH LEG) ON NORTH SIDE OF GRAND AVE.	*P	**FH	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				
PEDESTRIAN SIGNALS CROSSING 73RD AVE. (SOUTH LEG) ON SOUTH SIDE OF GRAND AVE.	H	H	H	*P	**FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H				
PEDESTRIAN SIGNALS CROSSING GRAND AVE. ON WEST SIDE OF 73RD AVE. (SOUTH LEG)	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H	H	H	H	H				
PEDESTRIAN SIGNALS CROSSING GRAND AVE. ON WEST SIDE OF 73RD AVE. (NORTH LEG)	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	*P	**FH	H	H	H	H				

* TO APPEAR ONLY UPON PUSHBUTTON ACTUATION

** FLASHING [Symbol] IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

⊕ THIS [Symbol] OR FLASHING [Symbol] INTERVAL MAY FINISH TIMING IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE [Symbol] OR FLASHING [Symbol] INTERVALS. [Symbol] AND FLASHING [Symbol] TIMINGS TO BE SET ONLY ON PHASES WHERE [Symbol] AND FLASHING [Symbol] 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

PHASE 1+6 SHALL BE PLACED ON RECALL.

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	4	8	11													
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER					2	3	4										
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	2	1G	2	1J	2	2	1M	2	3	4	5		
GRAND AVE. AT 73RD AVE. (NORTH LEG) W/B ALL SIGNALS	Y	R	Y	R	R	R	R	Y	R	R	R	R	R	R	R	G	Δ
GRAND AVE. AT 73RD AVE. (SOUTH LEG) W/B END MAST ARM AND FAR LEFT SIGNALS	Y	R	Y	R	R	Y	R	Y	R	R	Y	R	R	R	R	G	Δ
GRAND AVE. AT 73RD AVE. (SOUTH LEG) W/B FAR RIGHT SIGNAL	Y	R	Y	R	R	Y	R	Y	R	R	Y	R	R	R	R	G	Δ
GRAND AVE. AT 73RD AVE. (SOUTH LEG) E/B ALL SIGNALS	R	R	Y	R	R	R	R	Y	R	R	R	R	R	R	R	G	Δ
GRAND AVE. AT 73RD AVE. (NORTH LEG) E/B ALL SIGNALS	R	R	G	G	G	R	R	G	G	G	R	R	G	G	G	G	Δ
73RD AVENUE (SOUTH LEG) FAR LEFT AND MIDDLE POST SIGNALS	R	R	R	R	G	R	R	R	R	G	R	R	G	Y	R	R	Δ
73RD AVENUE (SOUTH LEG) NEAR & FAR RIGHT SIGNALS	R	R	R	R	C	R	R	R	R	G	R	R	G	Y	R	R	Δ
73RD AVENUE (NORTH LEG) ALL SIGNALS	R	R	R	R	R	Y	R	R	R	R	Y	R	R	R	R	R	Δ
PEDESTRIAN SIGNALS CROSSING 73RD AVE. (NORTH LEG) ON NORTH SIDE OF GRAND AVE.	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING 73RD AVE. (SOUTH LEG) ON SOUTH SIDE OF GRAND AVE.	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING GRAND AVE. ON WEST SIDE OF 73RD AVE. (SOUTH LEG)	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	Δ
PEDESTRIAN SIGNALS CROSSING GRAND AVE. ON WEST SIDE OF 73RD AVE. (NORTH LEG)	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	Δ
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS	NLT	NLT	NLT	NLT	Δ												
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS	NRT	NRT	NRT	NRT	Δ												

Δ 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.

NLT = "NO LEFT TURN" OR [Symbol]
 NRT = "NO RIGHT TURN" OR [Symbol]

P:\2012\ME12014_P1B162.18_Schwartz\CADD\W03_Centrol_Cook_LED\Shts\60W72-sht-TS-GrandAve_73rdAve.dgn
 4/2/2013 7:40 AM
 User: jnw
 Millennium Professional Services



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DESIGNED - JNP	REVISED -
DRAWN - JNP	REVISED -
CHECKED - TVN	REVISED -
DATE - 8/2/2013	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DESIGNATION DIAGRAM,
 AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
 GRAND AVENUE AT 73RD AVENUE**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VAR	2013-035-TS	COOK	87	29
CONTRACT NO. 60W72				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				