DATE	Π			
BY				
	SURVEYED	ALIGNMENT CHECKED	RT. OF WAY CHECKED CADD FILE NAME	
	PLAN	NOTE BOOK		

DATE						The state of the state of
BY						
	SURVEYED	PLOTTED	GRADES CHECKED	B.M. NOTED	STRUCTURE NOTATINS CHIKD	
. I	PROFILE SURVEYED		NOTE BOOK		No.	

FILE NAME =

..\sheets\690_6_sig_05e_high.dgn

USER NAME = _USER_

PLOT SCALE = \$SCALE\$

PLOT DATE = 7/20/2009

DESIGNED

DATE

DRAWN BAH

CHECKED APS

PROPOSED SEQUENCE OF OPERATION

MOVEMENT	7 40	5		f	- 1	-	· -	- P - 6 - 1	5	<u></u>	2~	-	►P 6			⁷				F	47	_			3	8			P#	4 8	*	F
PHASE			1.	+5			1+6		2	+5		2	+6			3+7					4+7	•			3	+8			4-	+8	ı	Ā
INTERVAL		1	2	3	4	5	6	7	8	9	10	11	12A	12B	13	14	15	16	17	18	19	20A	208	21	22	23A	23B	24	25	26A	26B	
CHANGE TO			1+6	2+5	2+6			2+6		2+6			3+7 4+7	7 3+8 7 4+8		1+5 2+5 1+6 2+6 1+6 4+8	3+8	4+7	, /		4+8	1+5 1+6	2+5 2+6		4+8	1+5 1+6	2+5 2+6			1+5 1+6	2+5 2+6	Н
INDIAN TRAIL MID MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	G	G	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
INDIAN TRAIL FAR LEFT AND END MAST ARM SIGNALS	E/B	R → G	R →Y	R →G	R →Y	R	R	R	G -G	G ⊸Y	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
INDIAN TRAIL MID MAST ARM SIGNAL	W/B	R	R	R	R	G	G	G	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
INDIAN TRAIL FAR LEFT AND END MAST ARM SIGNALS	W/B	R →G	R →G	R →Y	R ⊸Y	G → G	G →G	G →Y	R	R	G	G	Y	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
HIGHLAND AVENUE MID MAST ARM SIGNAL	N/B	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	Y	R	R
HIGHLAND AVENUE FAR LEFT AND END MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R ∢G	R →Y	R →G	R →Y	R	R	R	R	R	G →G	G ⊸Y	Y	R	G	G	Y	R	R
HIGHLAND AVENUE NEAR RIGHT AND MID MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	R	R	1	R	G	G	Υ	R	R
HIGHLAND AVENUE FAR LEFT AND END MAST ARM SIGNALS	S/B	R	R	R	R	R		R	R	R	R	R	R	R	R →G	R →Y	R →Y	R →G	G →G	G →G	G	Y	R	R	R	R	R	G	G	Υ	R	R
PEDESTRIAN SIGNALS CROSSING - NORTH SIDE OF INDIAN TRAIL		DW	DW	DW	DW	₩*	FL**	DW	DW	DW	₩*	FL**	DW	DW	DW	DW		DW			DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DARK
PEDESTRIAN SIGNALS CROSSING - WEST SIDE OF HIGHLAND AVENUE		DW	DW	DW									 	DW	+	DW	DW	DW	W,	FL*	DW	DW	DW	DW	DW	DW	DW	w*	FL** DW	DW	DW	DARK

NOTE: PHASES 2+6 SHALL BE ON RECALL

- * TO APPEAR ONLY UPON PUSH BUTTON ACTIVATION
- ** FLASHING "DONT WALK" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE
 - W = WALK

FL DW = FLASHING "DONT WALK"

DW = "DONT WALK"

PROPOSED RAILROAD PREEMPTION SEQUENCE OF OPERATION

**************************************				,										PREE	MPTOR SER 3	PREE	MPTOR SER 4	PREEMPTOR NUMBER 2	1			
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5	8	1	0	13	1	17	-	21	2	24						ĺ			
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	1 J	1K	1L	1M	1N	1P	10	1R	15	2	3	4	5	CLEAR TO
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2	1C	2	2	1G	2	2	1J	2	1L	2	1N	2	10	2	15	2	3	4	5		NORMAL SEQUENCE
INDIAN TRAIL MID MAST ARM SIGNAL E/	3 R	R	R	G	G	G	R	R	R	R	R	R	R	G	G	R	R	G	Y	R	R	Δ
INDIAN TRAIL FAR LEFT AND END MAST ARM SIGNALS	3 R →G	R	R	G →G	G	G	R	R	R	R	R	R	R	G	G	R	R	G →G	Y	R	R	Δ
INDIAN TRAIL MID MAST ARM SIGNAL W/	BR	Y	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ
INDIAN TRAIL FAR LEFT AND END MAST ARM SIGNALS W/	B R →Y	Y	R	R	Y	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	Δ
HIGHLAND AVENUE MID MAST ARM SIGNAL	3 R	R	R	R	R	R	R	R	R	Υ	R	Y	R	R	R	Y	R	R	R	R	G	Δ
HIGHLAND AVENUE FAR LEFT AND END MAST ARM SIGNALS	3 R	R	R	R	R	R	R →Y	R	R	Y	R	Y	R	R	R	Y	R	R	R	R	G	Δ
HIGHLAND AVENUE NEAR RIGHT AND MID MAST ARM SIGNALS S/	3 R	R	R	R	R	R	R	Y	R	R	R	Y	R	R	R	Y	R	R	R	R	G	Δ
HIGHLAND AVENUE FAR LEFT AND END MAST ARM SIGNALS S/	3 R	R	R	R	R	R	R →Y	Υ	R	R	R	Y	R	R	R	Y	R	R	R	R	G	Δ
PEDESTRIAN SIGNALS CROSSING - NORTH SIDE OF INDIAN TRAIL	DW	FL DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
PEDESTRIAN SIGNALS CROSSING - WEST SIDE OF HIGHLAND AVENUE	DW	DW	DW	DW	DW	DW	DW	FL DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	Δ
																					HOLD	

A 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 AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

EXISTING/PROPOSED TRAFFIC SIGNAL RAILROAD PREEMPTION SEQUENCE

	TIME (SECONDS)
DELAY ¹	1
MINIMUM GREEN	1
PED CLEARANCE BEFORE YELLOW ²	0
MAX YELLOW INTERVAL ³	4.0
MAX RED INTERVAL ³	1.5
MAX TIME BEFORE TRACK CLEARANCE GREEN	7.5
TRACK CLEARANCE4	23

- 1. ONE SECOND PROGRAMMED INTO RR PREEMPTORS TO LIMIT FALSE CALLS AND REQUIRED FOR PROPER 3 WIRE SUPERVISORY INTERCONNECT OPERATION.
- 2.TIME SHOULD BE ZERO UNLESS EXTRAORDINARY CONDITIONS EXIST WHERE ADDITIONAL PED CLEARANCE TIME IS NECESSARY.
- 3. BASED ON INFORMATION PROVIDED BY THE CITY OF AURORA. INCLUDES UP TO 4 SECONDS OF CONCURRENT FLASHING DON'T WALK.
- 4. TRACK CLEARANCE TIME WAS DETERMINED BASED ON QUEUE STORAGE AREA FROM THE INTERSECTION THROUGH THE CROSSING.

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

																						PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	
CHANGE FROM NORMAL SEQUENCE OF OPERATIONS INTERVAL NUMBER		1	5	!	5	8		8	10	1	0	13	1	7	17	2	1	21	2	4	24			
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1A	1B	1C	10	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	15	1T	1U	1٧	2	3	CLEAR TO
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		र्कुर	2	1D	3	2	1G	3	2	1K	3	₫₹	1N	2	3	1R	2	3	1U	2	3			NORMAL SEQUENCE
INDIAN TRAIL MID MAST ARM SIGNAL	E/B	R	R	R	R	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	R	\$
INDIAN TRAIL FAR LEFT AND END MAST ARM SIGNALS	E/B	R →Y	R	R	R	G →Y	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	R	\$
INDIAN TRAIL MID MAST ARM SIGNAL	W/B	R	G	Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	R	\Diamond
INDIAN TRAIL FAR LEFT AND END MAST ARM SIGNALS	W/B	R ⊸Y	G ⊸Y	Y	R	R	R	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	R	\langle
HIGHLAND AVENUE MID MAST ARM SIGNAL	N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	Y	R	G	R	G	
HIGHLAND AVENUE FAR LEFT AND END MAST ARM SIGNALS	N/B	R	R	R	R	R	R	R	R	R	R	R →Y	R	R	R	Y	R	G →G	Y	R	G	R	G	\$
HIGHLAND AVENUE NEAR RIGHT AND MID MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R	Υ	R	G	R	R	R	Y	R	G	R	G	\Diamond
HIGHLAND AVENUE FAR LEFT AND END MAST ARM SIGNALS	S/B	R	R	R	R	R	R	R	R	R	R	R ⊸Y	Y	R	G →G	R	R	R	Y	R	G	R	G	
PEDESTRIAN SIGNALS CROSSING - NORTH SIDE OF INDIAN TRAIL		DW	FL DW	DW	DW	DW	DW	DW	FL DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	\$
PEDESTRIAN SIGNALS CROSSING - WEST SIDE OF HIGHLAND AVENUE		DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	FL DW	D₩	DW	FL DW	DW	DW	FL DW	D₩	DW	\$

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

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EMERGENCY VEHICLE SEQUENCES 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 OR 3 IS TERMINATED.

							· · · · · · · · · · · · · · · · · · ·			
CO	NTROLLER			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
	EMERGE			1503	08-00271-00-TL	KANE	30	25		
	SEQ	JENCI	<u> </u>			CONTRAC	T NO. 6	3246		
SCALE:	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. RO	AD DIST. NO. ILLINOIS FED.	AID PROJECT		