

**CSAH 78 @ CSAH 20 - SIGNAL CODE 7276 - BY PHASE TIMING
PROPOSED - 11/29/2022**

BY PHASE TIMING DATA

PHASE	ø1	ø2	ø3	ø4	ø5	ø6	ø7	ø8
DIRECTION	SBLT	NBT	WBLT	EBT	NBLT	SBT	EBLT	WBT
MINIMUM GREEN	7	15	7	10	7	15	7	10
BK MIN GREEN								
CS MIN GREEN								
DELAY GREEN								
WALK		7		7		7		7
WALK 2								
PED CLEAR		23		22		23		22
PED CLEAR 2								
VEHICLE EXT	2.1	6.0	2.1	5.8	2.1	6.0	2.1	6.0
VEHICLE EXT 2								
MAX 1	15	50	25	40	20	50	15	40
MAX 2								
MAX 3								
DYM MAX								
DYM STP								
YELLOW	3.0	5.1	3.0	5.0	3.0	5.2	3.0	5.1
RED CLEAR	2.2	1.4	2.2	1.3	2.2	1.3	2.2	1.2
RED MAX								
RED REVERT	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
ACT B4								
SEC/ACT		0.0		0.0		0.0		0.0
MAX INT		0		0		0		0
TIME B4		17		14		17		14
CARS WT								
STPT DUC								
TIME TO REDUCE		17		14		17		14
MIN GAP		3.0		3.0		3.0		3.0

Detector Extend/Delay

- D1-1 & D1-2 delay - 2.0 sec.
- D2-2 - not in use
- D2-3 - 'P' queue/stop bar detector - 3.5 sec passage time
- D3-1 & D3-2 delay - 2.0 sec.
- D4-1 extend - **0.0 sec.**
- D4-2 delay - 10.0 sec.
- D4-3 - 'P' queue/stop bar detector - **3.0 sec passage time**
- D5-1 & D5-2 delay - 2.0 sec.
- D6-2 - not in use
- D6-3 - 'P' queue/stop bar detector - 3.5 sec passage time
- D7-1 & D7-2 delay - 2.0 sec.
- D8-1 extend - **0.0 sec.**
- D8-2 delay - 10.0 sec.
- D8-3 - 'P' queue/stop bar detector - **3.0 sec passage time**

With 'P' detectors turning off after queue clears, gap reduction can be used for all 4 approaches, which should improve dilemma zone safety and enhance the efficiency of signal timing.

ø1, ø3, ø5, and ø7 left turn phases will operate in protected only mode Monday-Friday from 7 AM - 8:30 AM, and from 3:30 PM - 5:30 PM, and in FYA mode all other hours

FYA Time-of-Day Operation as of -

Day Plan	Event	Action Plan	Start Time	Left-Turn FYA Operation			
				Phase 1 (Southbound)	Phases 5 (Northbound)	Phase 3 (Westbound)	Phase 7 (Eastbound)
Day Plan 1	1	2	0:00	Protected-Permissive	Protected-Permissive	Protected-Permissive	Protected-Permissive
	2	1	7:00	Protected-Only	Protected-Only	Protected-Only	Protected-Only
	3	2	8:30	Protected-Permissive	Protected-Permissive	Protected-Permissive	Protected-Permissive
	4	1	15:30	Protected-Only	Protected-Only	Protected-Only	Protected-Only
	5	2	17:30	Protected-Permissive	Protected-Permissive	Protected-Permissive	Protected-Permissive
Day Plan 2	1	1	0:00	Protected-Permissive	Protected-Permissive	Protected-Permissive	Protected-Permissive