

Yellow Trap Modifications & Settings – Fall 2011

Main Street Operations:

Scenario 1:

Protected left-turns {normally Ø1 & Ø5}

- No trap possible, no special sequence omit necessary
- Preempt settings:
 - o Emergency = Ø1+ Ø6 or Ø2+ Ø5
 - o Transit = Ø2+Ø6

Scenario 2:

Permissive left-turns using flashing red arrow, current operation

- No trap possible, no special sequence omit necessary
- Preempt settings:
 - o Emergency = Ø1+ Ø6 or Ø2+ Ø5
 - o Transit = Ø2+Ø6

Scenario 3:

Permissive left-turns (5-section display) both directions {normally Ø1 & Ø5}

- Special sequence omit needed to prevent yellow trap for Ø1 & Ø5
 - o Special sequence omit for Ø1 to be set to Ø2
 - o Special sequence omit for Ø5 to be set to Ø6
 - o OCAL function is available for special circumstances
- Preempt settings:
 - o Emergency = Ø2+Ø6
 - o Transit = Ø2+Ø6

Scenario 4:

One protected left-turn & one permissive left-turn (5-section display) {Ø1 protected and Ø5 permissive}

- Special sequence omit needed to prevent yellow trap for phase 5
 - o Special sequence omit for Ø1 to be set to Ø2
 - o OCAL for Ø1 to be set to phase 4 (or the last phase used in Ring 1)
- Preempt settings:
 - o Emergency = Ø2+Ø6 (for protected direction); Ø2+Ø5 for permissive direction
 - o Transit = Ø2+Ø6

Scenario 5:

One protected left-turn & one permissive left-turn (5-section display) {Ø5 protected and Ø1 permissive}

- Special sequence omit needed to prevent yellow trap for phase 1
 - o Special sequence omit for Ø5 to be set to Ø6
 - o OCAL for Ø5 to be set to phase 4 (or the last phase used in Ring 1)
- Preempt settings:
 - o Emergency = Ø2+Ø6 (for protected direction); Ø1+Ø6 for permissive direction
 - o Transit = Ø2+Ø6

Scenario 6:

One permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement) {Ø1 signalized permissive left-turn (5-section)}

- Special sequence omit needed to prevent yellow trap for un-signalized movement
 - o Special sequence omit Ø1 to be set to Ø2
 - o If no side street, OCAL to dummy phase may be necessary
- Preempt settings:
 - o Emergency = Ø2+Ø6
 - o Transit = Ø2+Ø6

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Main Street Operations (continued):

Scenario 7:

One permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø5 signalized permissive left-turn (5-section)}

- Special sequence omit needed to prevent yellow trap for un-signalized movement
 - o Special sequence omit Ø5 to be set to Ø6
 - o If no side street, OCAL to dummy phase may be necessary
- Preempt settings:
 - o Emergency = Ø2+Ø6
 - o Transit = Ø2+Ø6

Scenario 8:

One protected left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø1 signalized protected left-turn}

- Trap possible for un-signalized movement
 - o Special Sequence omit Ø1 to be set to Ø2
 - o OCAL for Ø1 to be set to phase 4 (or last phase in Ring 1)
- Preempt settings:
 - o Emergency = Ø2+Ø6
 - o Transit = Ø2+Ø6

Scenario 9:

One protected left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø5 signalized protected left-turn}

- Trap possible for un-signalized movement
 - o Special Sequence omit Ø5 to be set to Ø6
 - o OCAL for Ø5 to be set to phase 4 (or last phase in Ring 1)
- Preempt settings:
 - o Emergency = Ø2+Ø6
 - o Transit = Ø2+Ø6

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LEAD/LAG Operations:

Scenario 10: (LEAD/LAG operations)

Protected left-turns in both directions {phases unknown}

- No trap possible, no special sequence omit necessary
- Preempt settings:
 - o Emergency = main street through phase and associated left-turn phase for each direction
 - o Transit = main street through phases only

Scenario 11: (LEAD/LAG operations)

Permissive left-turns (5-section display) both directions {phases unknown}

- Must hang sign for LEAD left-turn “*ON COMING TRAFFIC MAY HAVE EXTENDED GREEN*”
- Special Sequence omit LEAD left turn phase to be omitted by opposite through movement phase
- Preempt settings:
 - o Emergency = main street through phases only
 - o Transit = main street through phases only
- OCAL function is available for special circumstances

Scenario 12: (LEAD/LAG operations)

Protected left-turn LEAD / permissive left-turn LAG (5-section) {phases unknown}

- Special Sequence omit LEAD left-turn phase to be omitted by opposite through movement phase
 - o OCAL for LEAD left-turn phase to be set to last phase in Ring 1
- Preempt settings:
 - o Emergency = main street through phase for approach with protected left-turn phase; main street through plus left for approach with permissive left-turn phase
 - o Transit = main street through phase

Scenario 13: (LEAD/LAG operations)

Permissive left-turn LEAD (5-section) / protected left-turn LAG {phases unknown}

- Must hang sign for LEAD left-turn “*ON COMING TRAFFIC MAY HAVE EXTENDED GREEN*”
- Preempt settings:
 - o Emergency = main street through phase and associated left-turn phase for each direction
 - o Transit = main street through phase

Scenario 14: (LAG Operation)

One LAG permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement)

- Must hang sign for un-signalized left-turn “*ON COMING TRAFFIC MAY HAVE EXTENDED GREEN*”
- Preempt setting:
 - o Emergency = main street through phase
 - o Transit = main street through phase

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Side Street Operations:

Scenario 1:

Protected left-turns {normally Ø3 & Ø7}

- No trap possible, no special sequence omit necessary
- Preempt settings:
 - o Emergency = Ø3+ Ø8 or Ø4+ Ø7
 - o Transit = Ø4+Ø8

Scenario 2:

Permissive left-turns (5-section display) {normally Ø3 & Ø7}

- Trap possible in preemption only due to main street recalls
- Preempt settings:
 - o Emergency = Ø4+ Ø8
 - o Transit = Ø4+Ø8

Scenario 3:

One protected left-turn & one permissive left-turn (5-section display) {Ø3 protected and Ø7 permissive}

- Trap possible in preemption only due to main street recalls
- Preempt settings:
 - o Emergency = Ø4+Ø8 (for protected direction); Ø4+Ø7 for permissive direction
 - o Transit = Ø4+Ø8

Scenario 4:

One protected left-turn & one permissive left-turn (5-section display) {Ø7 protected and Ø3 permissive}

- Trap possible in preemption only due to main street recalls
- Preempt settings:
 - o Emergency = Ø4+Ø8 (for protected direction); Ø3+Ø8 for permissive direction
 - o Transit = Ø4+Ø8

Scenario 5:

One permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø3 signalized permissive left-turn}

- Trap possible in preemption only due to main street recalls
- Preempt settings:
 - o Emergency = Ø4+Ø8
 - o Transit = Ø4+Ø8

Scenario 6:

One permissive left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø7 signalized permissive left-turn}

- Trap possible in preemption only due to main street recalls
- Preempt settings:
 - o Emergency = Ø4+Ø8
 - o Transit = Ø4+Ø8

Scenario 7:

One protected left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø3 signalized protected left-turn}

- Trap possible in preemption only due to main street recalls
- Preempt settings:
 - o Emergency = Ø4+Ø8
 - o Transit = Ø4+Ø8

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Side Street Operations (continued):

Scenario 8:

One protected left-turn & one un-signalized permissive left-turn (left-turn from through movement)
{Ø7 signalized protected left-turn}

- Trap possible in preemption only due to main street recalls
- Preempt settings:
 - o Emergency = Ø4+Ø8
 - o Transit = Ø4+Ø8