

# DOUBLE INTERSECTION WITH OVERLAPS: (WITH LAG GREEN TIMES)

## THREE PHASE OPERATION (6 VEHICLE PHASES)

### LEFT TURN PHASES

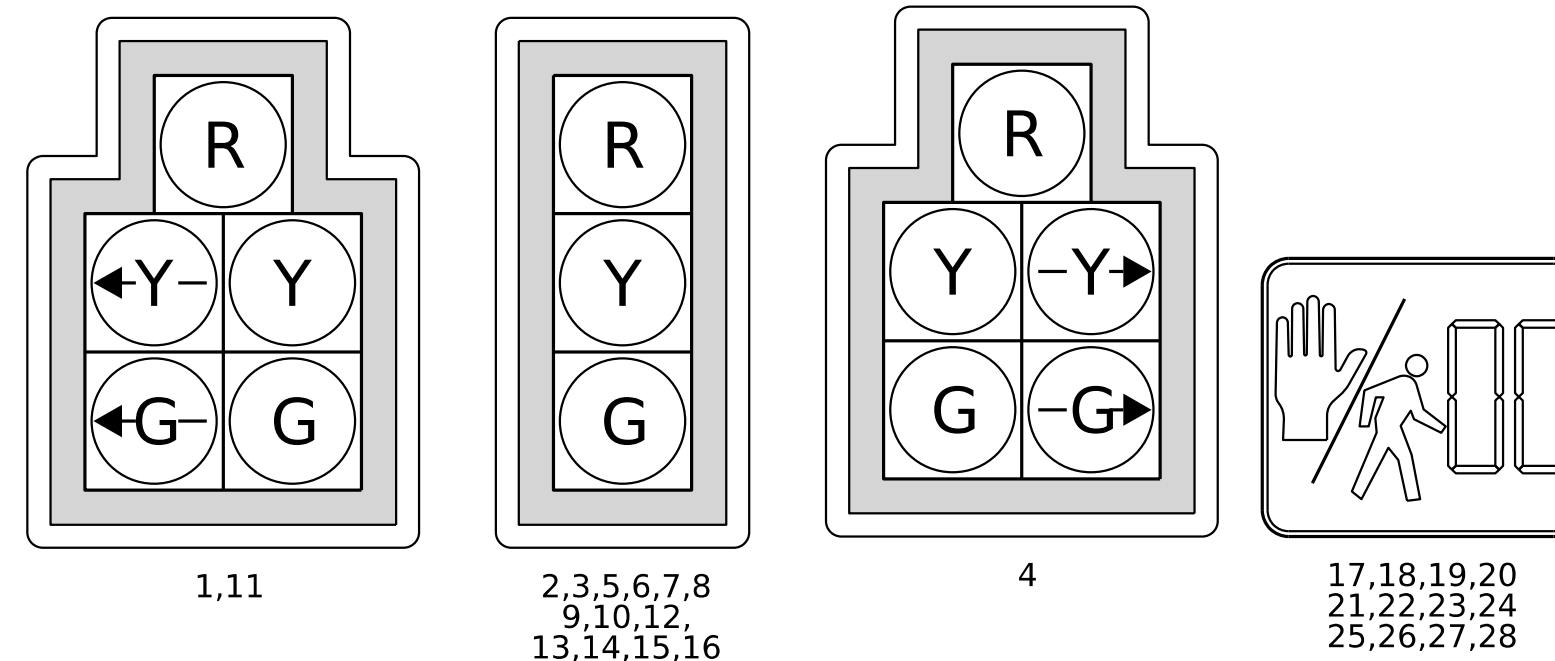
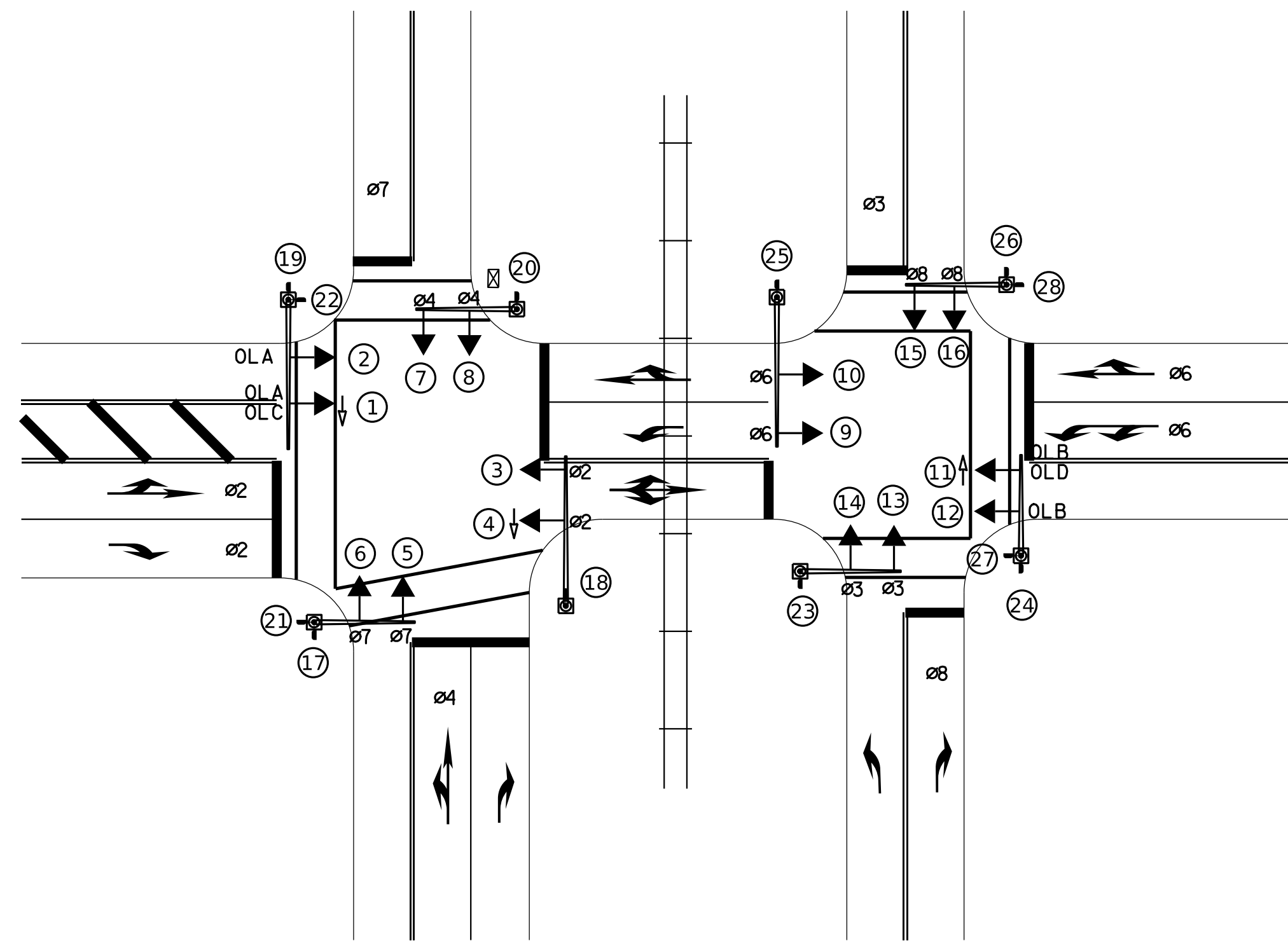
- MAINLINE:  
 (2) PERMISSIVE: 3-SECTION  
 (2) PROTECTED/PERMISSIVE: 5-SECTION  
 SIDE STREET:  
 (4) PERMISSIVE: 3-SECTION

### RIGHT TURN PHASES

- MAINLINE:  
 (3) PERMISSIVE: 3-SECTION  
 (1) PROTECTED/PERMISSIVE: 5-SECTION  
 (RR PREMPT ONLY)

### LEFT TURN PHASES

- SIDE STREET:  
 (4) PERMISSIVE: 3-SECTION



BARRIER BARRIER BARRIER BARRIER

RING A

RING B

**PHASE: 2** ACTIVE OVERLAP: B

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
3	Ø2	R	G	Y	R
4	Ø2	R	G	Y	R
17,18,23,24	Ø2P	W	W/FD DW	DW	DW

17,18,23,24

**PHASE: 4** ACTIVE OVERLAP: B,D

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
7,8	Ø4	R	G	Y	R

\* Ø7 PED TO ALSO DELAY Ø4

**PHASE: 3** ACTIVE OVERLAP: A,C

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
13,14	Ø3	R	G	Y	R

\* Ø8 PED TO ALSO DELAY Ø3

**OVERLAPS**

**OVERLAP: A** NORMAL INCLUDED PHASES: 3,6,8

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
1	OLA	R	G	Y	R
2	OLA	R	G	Y	R

**OVERLAP: B** NORMAL INCLUDED PHASES: 2,4,7

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
11	OLB	R	G	Y	R
12	OLB	R	G	Y	R

**OVERLAP: E** NORMAL INCLUDED PHASES: RR

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
4	OLE	-	-G-	-Y-	-

**PHASE: 6** ACTIVE OVERLAP: A

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
9,10	Ø6	R	G	Y	R
19,20,25,26	Ø6P	W	W/FD DW	DW	DW

19,20,25,26

**PHASE: 7** ACTIVE OVERLAP: B,D

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
5,6	Ø7	R	G	Y	R
21,22	Ø7P	W	W/FD DW	DW	DW

21,22

**PHASE: 8** ACTIVE OVERLAP: A,C

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
15,16	Ø8	R	G	Y	R
27,28	Ø8P	W	W/FD DW	DW	DW

27,28

**OVERLAP: C** NORMAL INCLUDED PHASES: 3,8

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
1	OLC	-	←G-	←Y-	-

**OVERLAP: D** NORMAL INCLUDED PHASES: 4,7

SIGNALS	Ø	LPI	GREEN ACTIVE	YELLOW CHANGE	RED CLEAR
11	OLD	-	←G-	←Y-	-

PHASE TIMING

PHASES	1	2	3	4	5	6	7	8
MIN GREEN		12	5	5		12	5	5
ADVANCE WALK		3	3	3		3	3	3
WALK		7	-	-		7	7	7
DON'T WALK		17	-	-		17	14	10
VEH EXT		2	2	2		2	2	2
MAX 1		60	20	40		60	20	35
MAX 2		60	20	40		60	20	35
YELLOW		4	3	3		4	3	3
RED		4	3	3		4	3	3
MIN RECALL								
MAX RECALL								
SOFT RECALL		X				X		
PED RECALL								
REST IN WALK								
DUAL ENTRY								
MEMORY		L	NL	NL		L	NL	NL

PREEMPTION

TYPE	EVP	EVP	EVP	EVP	EVP	RR
CONFIRMATION SIGNAL	A	B	C	D	E	F
DWELL PHASES Ø	2	6	4	7	3	8
DWELL OVERLAPS	B,D	A,C	B,D	B,D	A,C	A,C
PREEMPT MIN	10	10	10	10	10	10
PREEMPT MAX	60	60	60	60	60	60
EXIT PHASE Ø	2,6	2,6	4,7	4,7	3,8	3,8

OVERLAPS

OVERLAPS	A	B	C	D	E
SIGNALS	1,2	11,12	1	11	4
INDICATIONS	R Y G	R Y G	←Y- ←G-	←Y- ←G-	-Y- -G-
TYPE	NORMAL	NORMAL	NORMAL	NORMAL	NORMAL
INCLUDED PHASES Ø	3,6,8	2,4,7	3,8	4,7	RR
FYA PROTECTED Ø					
FYA PERMISSIVE Ø					
FYA START DELAY					
LAG GREEN	6	6	6	6	0
YELLOW	3	3	3	3	-
RED	3	3	3	3	-

RR PREEMPTION

TYPE	RR
TRACK CLEAR PHASE Ø	-
TRACK CLEAR OVERLAP	A,B,C,D
TRACK CLEAR GREEN	19
TRACK CLEAR YELLOW	3
TRACK CLEAR RED	3
RR DWELL PHASES Ø	-
RR DWELL OVERLAPS	E
EXIT PHASE Ø	2,6