OPERATIONS SHEET

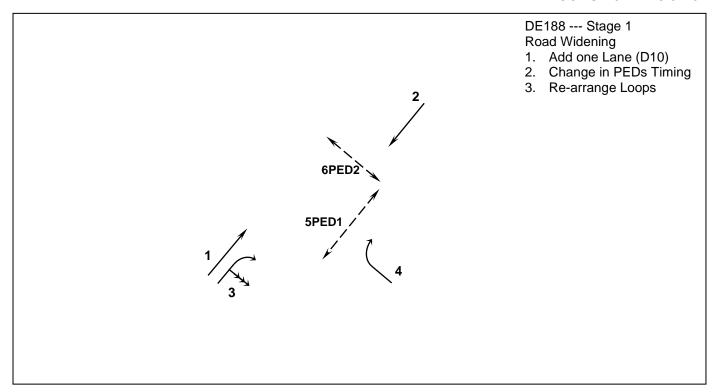
Location: Seletar West Link / West Camp Rd Int. No: 1707

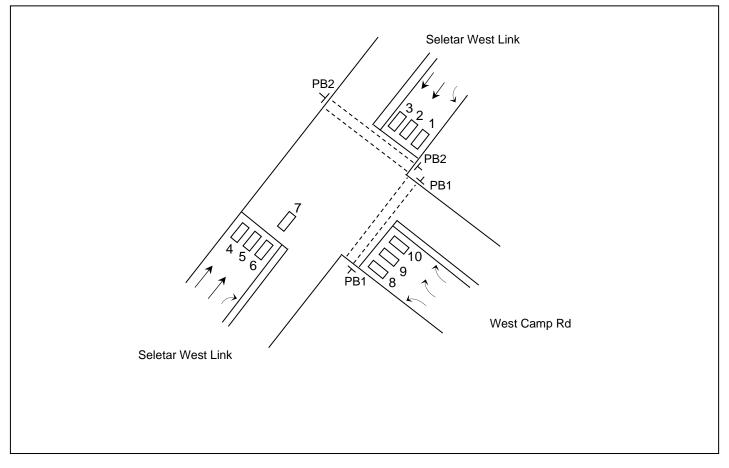
Prepared by: <u>Lang Jie</u> Date: <u>07 / 01 / 2025</u> Signal ID: <u>2375</u>

Checked by: Teo Wei Yong

Approved by: Simon Ho

GOMS: 20241226-0720





Wef. 1st April 2005

REMARKS

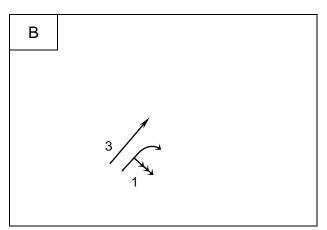
Location:		Int. No: <u>1707</u>
If phase change	switch is equal or more than TSM15, controller is to send of	out MSS15 flag
If phase	_ is not introduced, SG will flash for 3 seconds	(TSM 14) in All-Red.
☐ If phase	_ is not introduced, SG will flash for 3 seconds	(TSM 14) in All-Red.
▼ B, C, D	phase(s) is/are demand dependent.	
√ A	_ phase(s) is/are placed on permanent demand in all Mode	S.
√ PED <u>1</u>	_ is introduced when Push Button is a	activated.
▼ PED 2	_ is introduced when Push Button PB2 is a	activated.
☐ PED	_ is introduced when Push Button is a	activated.
☐ PED	_ is introduced when Push Button is a	activated.
Detector loop(s)	is/are presence-timed lock call for	phase.
Detector loop(s)	is/are presence-timed lock call for	phase.
_	_ phase, after the lock call timer has expired (more than TS	SM), detector
loop(s)	will cancel demand for phase.	
During	_ phase, after the lock call timer has expired (more than TS	SM), detector
	will cancel demand for <u>C</u> phase.	
Left Turn Green	Arrow SG	
	ed in phase.	
	_ terminates with <u>SG / Phase</u> with green arrow flashing for	3 seconds.
Left Turn Green	Arrow SG	
1. It is introduced	ed in phase.	
2 SG	terminates with SG5 / Phase C with green arrow flashing	for 3 seconds

PHASING DIAGRAM

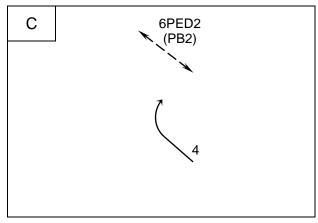
Location: Int. No: <u>1707</u>

А			
	1	2/	
	1	1	
		5PED1 (PB1)	

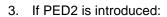
PHASE	PROHIBITED PHASE CHANGES TO	REVERSION ON MAXIMUM	MAXIMUM V. I. G. ON MAXIMUN
Α			
В			
С			
D			
Е			
F			
G			



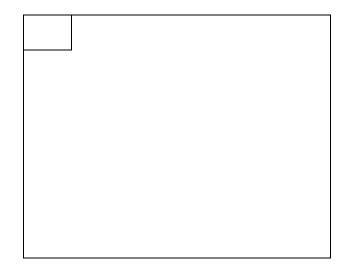
1. If PED1 is introduced, A phase Min GRN = TSM21 = 43 Sec



2. SG4 Late Start = 0.3 Sec



- 1) SG4 Late Start = TSM2 = 3 Sec
- 2) C phase Min GRN = TSM22 = 32 Sec



DETECTOR FUNCTION

Location: _____Int. No: <u>1707</u>

				•				CTOR AL		
DETECTOR NO	CALL PHASE	LOCKING	NON LOCKING	SET VIG ON PHASE	EXTEND PHASE	SPECIAL	CALL & EXTEND	CALL ONLY	DISABLE	PLAN REFERENCE
1	Α	√			Α		✓			
2	Α	√			Α		✓			
3	Α	√			Α		√			
4	Α	√			A, B		√			
5	Α	✓			A, B		√			
6	B, D	В	D		B, D		√			
7	B, D	В	D		B, D		√			
8	С	√			С		√			
9	С	√			С		√			
10	С	✓			С		✓			
11										
12										
13										
14										
15						PHASE CHANGE SWITCH			√	
16	_					POLICE CONTROL SWITCH			✓	
PB1	A	√				PED 1		√		
PB2	С	✓				PED 2		✓		
PB3										
PB4										
PB5										
PB6										

APPROACH TIMING

Location: _____Int. No: <u>1707</u>

APPROACH	EXTENDING DETECTORS	SIGNAL GROUP	COMMENTS
A1	1	2	
A2	2	2	
А3	3	2	
A4	4, 5	2	
B1	4, 5	3	
B2	6	3	
В3	7	3	
B4			
C1	8	4	
C2	9	4	
C3	10	4	
C4			
D1	6	3	
D2	7	3	
D3			
D4			
E1			
E2			
E3			
E4			
F1			
F2			
F3			
F4			
G1			
G2			
G3			
G4			

NOTE: MAXIMUM NUMBER OF APPROACHES IS 16

INTERGREEN, PEDESTRIAN TIMES AND SPECIAL FUNCTIONS

Location:	Int. No:	1707

PHASE	CLEARANCE	CLEARANCE	INTERGREEN				
PHASE	MOVEMENT	DISTANCE	AMBER	RED	TOTAL		
Α			3	2	5		
В			3	3	6		
С			3	3	6		
D			3	5	8		
Е							
F							
G							

PED	PED PHASE	WA	CLEARANCE TIME		
NO.		DISTANCE (m)	GREEN TIME	1	2
1	Α	34	6	34	
2	С	26	6	26	
3					
4					
5					
6					
7					

Pedestrian Walking Speed: 1.0 m/sec

SPECIAL FACILITIES

SIGNAL GROUP	HOUR	MINUTE	SECOND	FUNCTION

PRE-EMPTION

SIGNAL GROUP	PHASE	FUNCTION	REMARKS

CONTROLLER TIMESETTING

Location: _____Int. No: <u>1707</u>

SPECIAL MOVEMENT (S. M.) TIME

	S. M.	1	2	3	4	5	6	7	8
	INTERVAL	•		3	4	5	O	,	0
MINIMUM GREEN	1								
AMBER	2								
RED	3								
GAP	4								
HEADWAY	5								
WASTE	6								
MAXIMUM	7								
SIGNAL GROUP									
D									

PRESENCE (RANGE 0 -5)

ALTERNATE TIME SETTING (RANGE 0-200)

DET. NO	PRESENCE TIME
1	Sec
2	Sec
3	Sec
4	Sec
5	Sec
6	Sec
7	Sec
8	Sec
9	Sec
10	Sec
11	Sec
12	Sec

DET. NO	PRESENCE TIME
13	Sec
14	Sec
15	Sec
16	Sec
17	Sec
18	Sec
19	Sec
20	Sec
21	Sec
22	Sec
23	Sec
24	Sec

ΜE
Sec
Sec

ALT. NO	TIME
17	
18	
19	
20	*5 Sec
21 A Min GRN	43 Sec
22 C Min GRN	32 Sec
23	
24	
25	
26	
27	
28	
29	
30	
31	
32	

^{*}Note: During start-up of controller, there will be a 5 seconds All Red (TSM20)

CONTROLLER TIMESETTING

Location: _____ Int. No: 1707

	PHASE	Α	В	С	D	Е	F	G	Н]
	INTERVAL	1	2	3	4	5	6	7	8	Range
RED/YELLOW	1									0 – 5
LATE START	2			0.3						0 – 20
MINIMUM GREEN	3	10	7	7	7					5 – 20
INCREMENT	4									0 – 5
MAX. V. I. G.	5									0 – 40
MAX. EXT. GREEN	6	40	29	35	23					0 – 150
EARLY CUT-OFF	7									0 – 20
AMBER	8	3	3	3	3					3 – 7
ALL RED	9	6	6	6	6					0 – 15
SPECIAL ALL RED	10	2	3	3	5					0 – 15
GAP 1	11	3	3	3	3					0 –10
GAP 2	12	3	3	3	3					0 –10
GAP 3	13	3	3	3						0 –10
GAP 4	14	0								0 –10
HEADWAY 1	15	1.2	0.6	1.2	1.2					0 – 5
HEADWAY 2	16	1.2	1.2	1.2	1.2					0 – 5
HEADWAY 3	17	1.2	1.2	1.2						0 – 5
HEADWAY 4	18	0.6								0 – 5
WASTE 1	19	7	7	7	7					0 – 50
WASTE 2	20	7	7	7	7					0 – 50
WASTE 3	21	7	7	7						0 – 50
WASTE 4	22	7								0 – 50
MAXIMUM 1	23									0 – 150
MAXIMUM 2	24									0 – 150
MAXIMUM 3	25									0 – 150
MAXIMUM 4	26									0 – 150

Maximum V. A. Cycle Time:

✓ Use Special All Red if going from _	Α	phase to _	В	phase
Use Special All Red if going from	В	phase to _	С	phase

Use Special All Red if going from C phase to D/A phase
Use Special All Red if going from D phase to A phase

	PEDESTRIAN NO.	1	2	3	4	5	6	7	8	
	INTERVAL	17	18	19	20	21	22	23	24	Range
DELAY	1									0 – 20
WALK	2	6	6							0 – 40
CLEARANCE 1	3	34	26							0 – 40
CLEARANCE 2	4									0 – 10
PAC		7	7							

CO-ORDINATION DATA

Location:	Int. No:	1707

MASTERLINK & FLEXILINK SPECIAL FLAGS

SIGNAL	FUNCTION
Y- FLEXI	Continuous
Y- MASTER	Auto Call Bush Button DED 1 2
Y+ FLEXI	Auto Call Push Button PED 1, 2
Z- FLEXI	Auto Call Push Button PED 1
Z- MASTER	Auto Call Fusii Button FED 1
Z+ FLEXI	
Z+ MASTER	
R- FLEXI	B Phase Release Pulse
R+ FLEXI	C Phase Release Pulse
Q- FLEXI	D Phase Release Pulse
Q+ FLEXI	A Phase Release Pulse
Z1 MASTER	
Z MASTER	
Z MASTER	
Z MASTER	

LOOK AHEADS AND RELEASES

Phase Sequence 1				Phase Sequence 2
PHASE	LOOK AHEAD	RELEASE	PHASI	SE LOOK AHEAD RELEASE
Α	NO	Q+	Α	
В	NO	R-	В	
С	Yes to A	R+	С	
D	Yes to A	Q-	D	
Е			Е	
F			F	
G			G	

The following phases can be inhibited in Flexilink by omitting the call pulses in the plan data _____

NO	PHASE SEQUENCE
1 (No Z-)	ABCD
2 (Z-)	

GLIDE INTERSECTION DATA

Int. No: 1707 Location:

The data shown on this page should be entered when the intersection is first placed on line. This data is not Note: necessarily used for Master Link operation.

SLOT 130 = 4, 8, 2	E.g. x , y , z . $x = No c$	E.g. x, y, z. $x = No$ of Phases $y = No$ of Split Plans $z = No$ of PEDs				
INT = 1707						
VC =	Date:	Date:				
CS =	PP1 = 0, 0 ^A	PP1 =				
COM =	PP2 = 0, 0 ^A	PP2 =				
PK =	PP3 = 0, 0 ^A	PP3 =				
S# =	PP4 = 0, 0 ^A	PP4 =				
LM = MF	Note: Always LM = F initially					

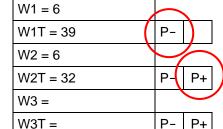
Г	IVI	IN	=	

DOL =	
VOLS = 1 – 10	
VP# =	

VP# =	
AT = 5	
BT = 6	
CT = 6	

DT	= 8	
ΕT	=	

FT	=
GT	=



<u>varıa</u>	<u>tion</u>	Paramet	er ((VP)
		_		

VP1 =	VP8 =	VP15 =	VP22 =	VP29 =
VP2 =	VP9 =	VP16 =	VP23 =	VP30 =
VP3 =	VP10 =	VP17 =	VP24 =	VP31 =
VP4 =	VP11 =	VP18 =	VP25 =	VP32 =
VP5 =	VP12 =	VP19 =	VP26 =	VP33 =
VP6 =	VP13 =	VP20 =	VP27 =	VP34 =
VP7 =	VP14 =	VP21 =	VP28 =	VP35 =

W4 =		
W4T =	P-	P+
W5 =		
W5T =	P-	P+
W6 =		
W6T =	P-	P+

SPLIT PLANS

2 3 1 SF

	FEATURES				
Α	0 PDFG B	< 0 >	< 0 >	< 0 >	< 0 >
В	С	14	14	14	18
С	D	30	34	34	30
D	А	14	14	14	14
Е					
F					
G					

SF				
FEATURES				
	< 0 >	< 0 >	< 0 >	< 0 >
	18	22	26	22
	36	40	40	36
	SKIP	SKIP	SKIP	SKIP

PLAN DATA

Location: _____ Int. No: <u>1707</u>

<u>PLAN</u>

		1	2	3	4	5	6	7	8	9	10
0	CL	134	124		134	104	114	124			
1	Α	0	0		0	0	0	0			
2	В	51	52		51	51	51	52			
3	С	73	82		73	75	75	82			
4	D	114	123		114	103	113	123			
5	E										
6	F										
7	G										
8	R-	С	С		С	С	С	С			
9	R+	С	С		С	С	С	С			
10	Υ-	С	С		С	С	С	С			
11	Y+										
12	Z-										
13	Z+										
14	Q-	С	С		С	С	С	С			
15	Q+	41	42		41	41	41	42			
16	XSF (9-16)*										
17	XSF (1-8)*										

^{*} A digit hexadecimal number which signifies which XSF bits are used; e.g. AO signifies bits 14 & 16 are set.

PLAN SCHEDULE

CODE	HOUR	MINUTE	PLAN
8	0	0	5
8	7	0	1
8	9	0	7
8	12	0	2
8	17	0	4
8	21	0	6
8	23	0	5
7	0	0	5
7	7	0	7
7	9	0	7

CODE	HOUR	MINUTE	PLAN
7	12	0	6
7	15	0	2
7	21	0	6
7	23	0	5
1	0	0	5
1	7	0	7
1	9	0	7
1	14	0	2
1	21	0	6
1	23	0	5

Pedestrian and Vehicle Signal Groups Interlock Table

Location: _____Int. No: <u>1707</u>

	Phase A	Phase B	Phase C	Phase D	Phase E	Phase F	Phase G
SG 1	SGAR	SGAR	RED	SGAR			
SG 2	SGAR	RED	RED	RED			
SG 3	RED	SGAR	RED	SGAR			
SG 4	RED	RED	SGAR	RED			
SG 5	WALK	DON'T	DON'T	DON'T			
SG 6	DON'T	DON'T	WALK	DON'T			
SG 7							
SG 8							
SG 9							
SG 10							
SG 11							
SG 12							
SG 13							
SG 14							
SG 15							
SG 16							

Legend:

GAR Green, Amber, Red

GEAR Green, Amber, Red (With ECO)

RED Red

SGRN Special Green SOFF Special Off

WALK PED Walk, Clearance 1 and Clearance 2

SWALK Special PED Walk, Clearance 1 and Clearance 2

DON'T PED Red

Signal Groups Conflict Matrix

Location:	Int. No: 1707

('C16' E<u>NTER</u>)

NIEK)																
SG	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1				Х		Х										
2			Х	Х		Х										
3		Х		Х	Х	Х										
4	Х	Х	X		Х											
5			Х	Х												
6	Х	Х	Х													
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																