

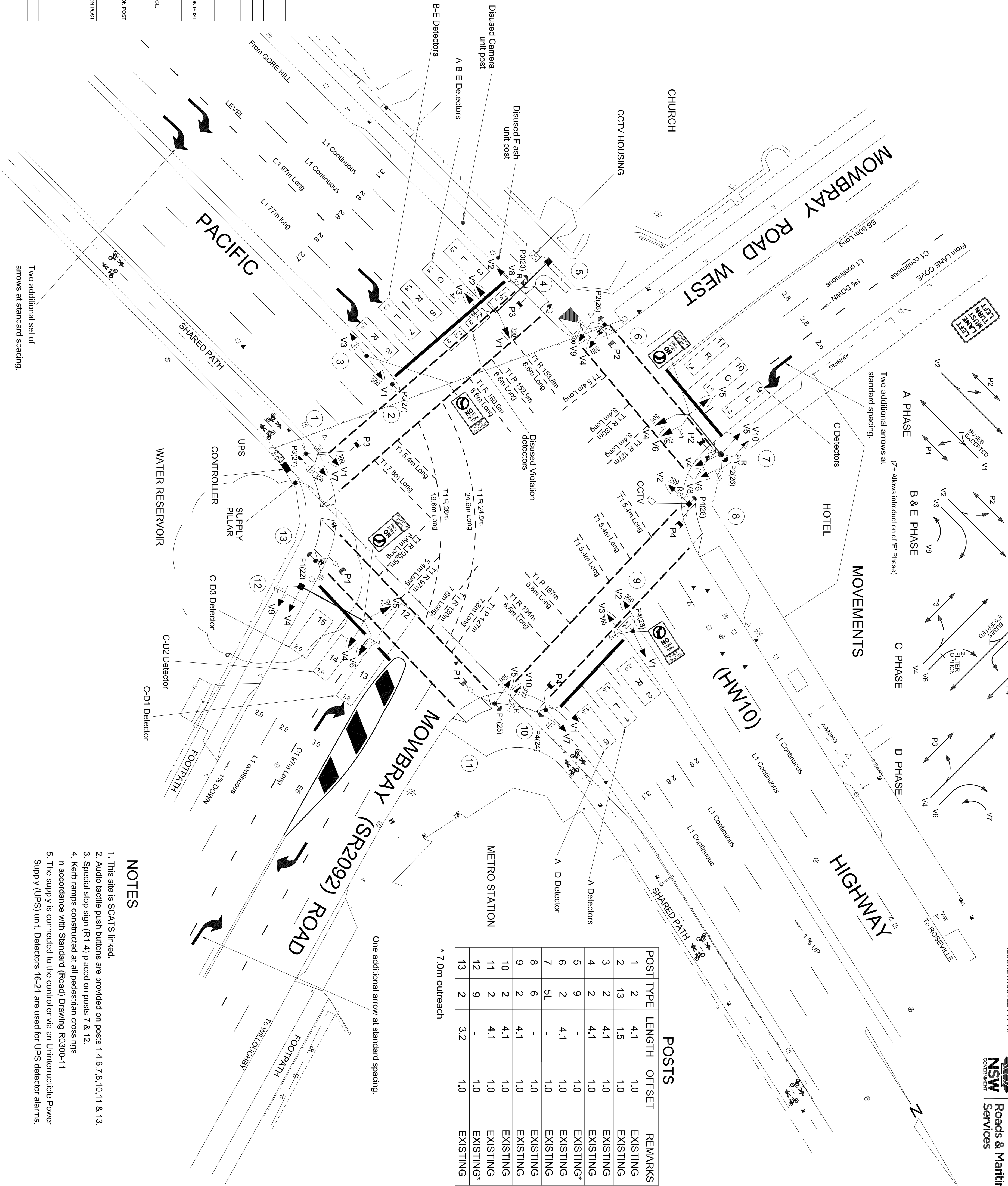
DRAWN BY CADD
DO NOT AMEND MANUALLY

DETECTOR SPECIFICATION

Detector	Specifications			
	FN	A(L)	A(E2)	
A	SG/PS	A	A	
	DS	—	—	
A-B-E	FN	A(L)	A(E1)	B(E1)
	SG/PS	V2	A	B
cont.	DS	B(E)	B(NEXT),E(NEXT)	A(NEXT),E(NEXT)
	FN	E(E1)		
A-B-E	SG/PS	E		
A-D	DS	A(NEXT),B(NEXT)		
	FN	A(PR)	A(E3)	D(E3)
B-E	SG/PS	A	A	D
	FN	—	—	
B-E	DS	B(L)	E(L)	B(E2) E(E2)
	SG/PS	V3	V3	B E
C	DS	Z+	-	E(NEXT) B(NEXT)
	FN	C(L)	C(E3)	
C-D1	SG/PS	C	C	
	DS	—	—	
C-D1	FN	D(PR)		
	SG/PS	C		
Approach	DS	Z-		
	FN	C(L),D(L)	D(L)	C(E1) D(E1)
C-D1	SG/PS	V4	D	C
	DS	Z-	Z-	D
C-D2	FN	C(L)	C(E2)	D(E2)
	SG/PS	V4	C	D
C-D3	DS	D	D(NEXT)	C(NEXT)
	FN	C(PR)	C(E4)	D(E4)
P1	SG/PS	C/D	C	D
	DS	D	D(NEXT)	C(NEXT)
P.B.	FN	A(PB)	C(L)	
	SG/PS	P1(WALK)	A,P1(WALK)	
P2	DS	—	B,C,D,E	
	FN	A(PB)		C(L)
P.B.	SG/PS	V2,P2(WALK)		V2,P2(WALK)
	DS	B,E		C,D
P3	FN	C(PB)		E(L)
	SG/PS	V4,P3(WALK)		V4,P3(WALK)
P.B.	DS	D		A,B,E
	FN	C(PB)	E(L)	
P4	SG/PS	P4(WALK)	C,P4(WALK)	
	DS	—	A,B,D,E	

SPECIAL SIGNAL GROUP DISPLAY SEQUENCE

SIGNAL GROUP	PHASE GREEN				TABLE TYPE	REMARKS
	A	B	C	D		
V1					1	
V2	X	X		X	4	Overlap BE — ABE only
V3		X		X	34	
V4		X	X		4	Overlap D — C
V5			X		1	
V6				X	82	
V7				X	-	
V8					30	
V9					-	
V10	X			X	-	
P1	X				2	
P2	X	X		X	22	
P3		X	X		23	
P4			X		1	



POSTS				
POST TYPE	LENGTH	OFFSET	REMARKS	
1	2	4.1	1.0	EXISTING
2	13	1.5	1.0	EXISTING
3	2	4.1	1.0	EXISTING
4	2	4.1	1.0	EXISTING
5	9	-	1.0	EXISTING*
6	2	4.1	1.0	EXISTING
7	5L	-	1.0	EXISTING
8	6	-	1.0	EXISTING
9	2	4.1	1.0	EXISTING
10	2	4.1	1.0	EXISTING
11	2	4.1	1.0	EXISTING
12	9	-	1.0	EXISTING*
13	2	3.2	1.0	EXISTING

NOTES

1. This site is SCATS linked.
2. Audio tactile push buttons are provided on posts 1,4,6,7,8,10,11 & 13.
3. Special stop sign (R1-4) placed on posts 7 & 12.
4. Kerb ramps constructed at all pedestrian crossings in accordance with Standard (Road) Drawing R0300-11
5. The supply is connected to the controller via an Uninterruptible Power Supply (UPS) unit. Detectors 16-21 are used for UPS detector alarms.

A ORIGINAL ISSUE

EXISTING

PROPOSED

SCALE: 1:7.0m

REG No. DS00000/000000

TCS No. 0163

SHEET ?

WILLOUGHBY COUNCIL AREA

TRAFFIC SIGNALS AT

PACIFIC HIGHWAY, MOWBRAY ROAD (SR2092)

AND MOWBRAY ROAD WEST

CHATSWOOD

EXISTING

PROPOSED

DESIGN LAYOUT

ROADS AND MARITIME SERVICES

WILLOUGHBY COUNCIL AREA

TRAFFIC SIGNALS AT

PACIFIC HIGHWAY, MOWBRAY ROAD (SR2092)

AND MOWBRAY ROAD WEST

CHATSWOOD

DESIGN LAYOUT

ROADS AND MARITIME SERVICES

WILLOUGHBY COUNCIL AREA

TRAFFIC SIGNALS AT

PACIFIC HIGHWAY, MOWBRAY ROAD (SR2092)

AND MOWBRAY ROAD WEST

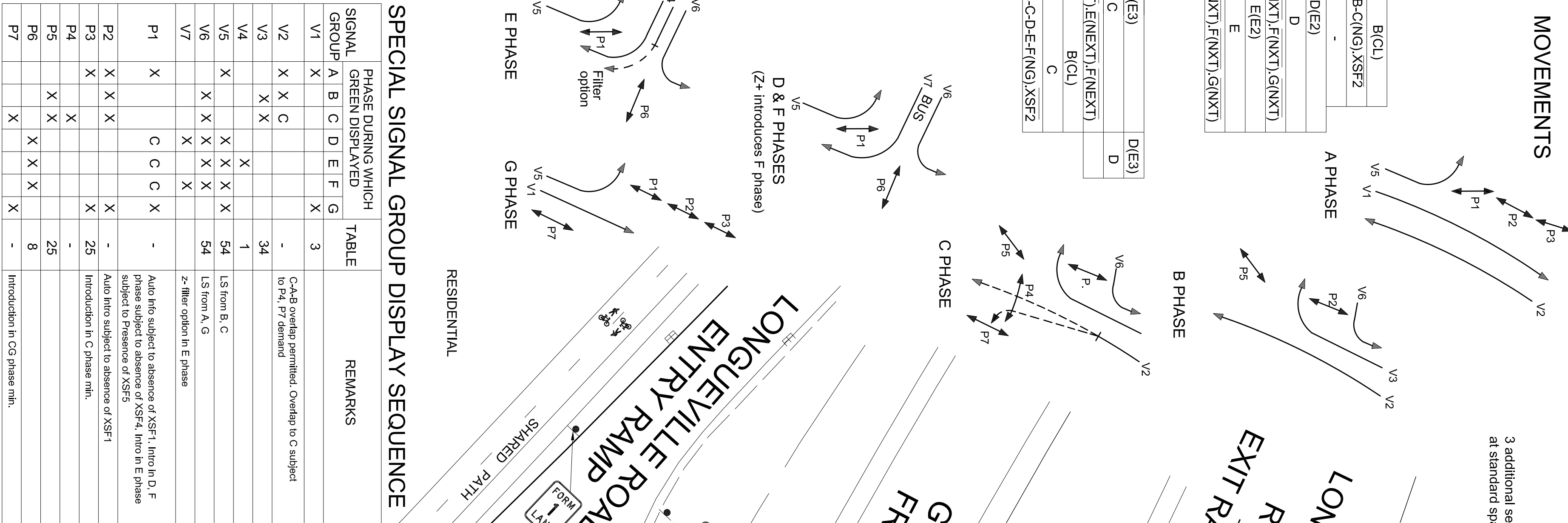
CHATSWOOD

DRAWN BY CADD
DO NOT AMEND MANUALLY

DETECTOR SPECIFICATION

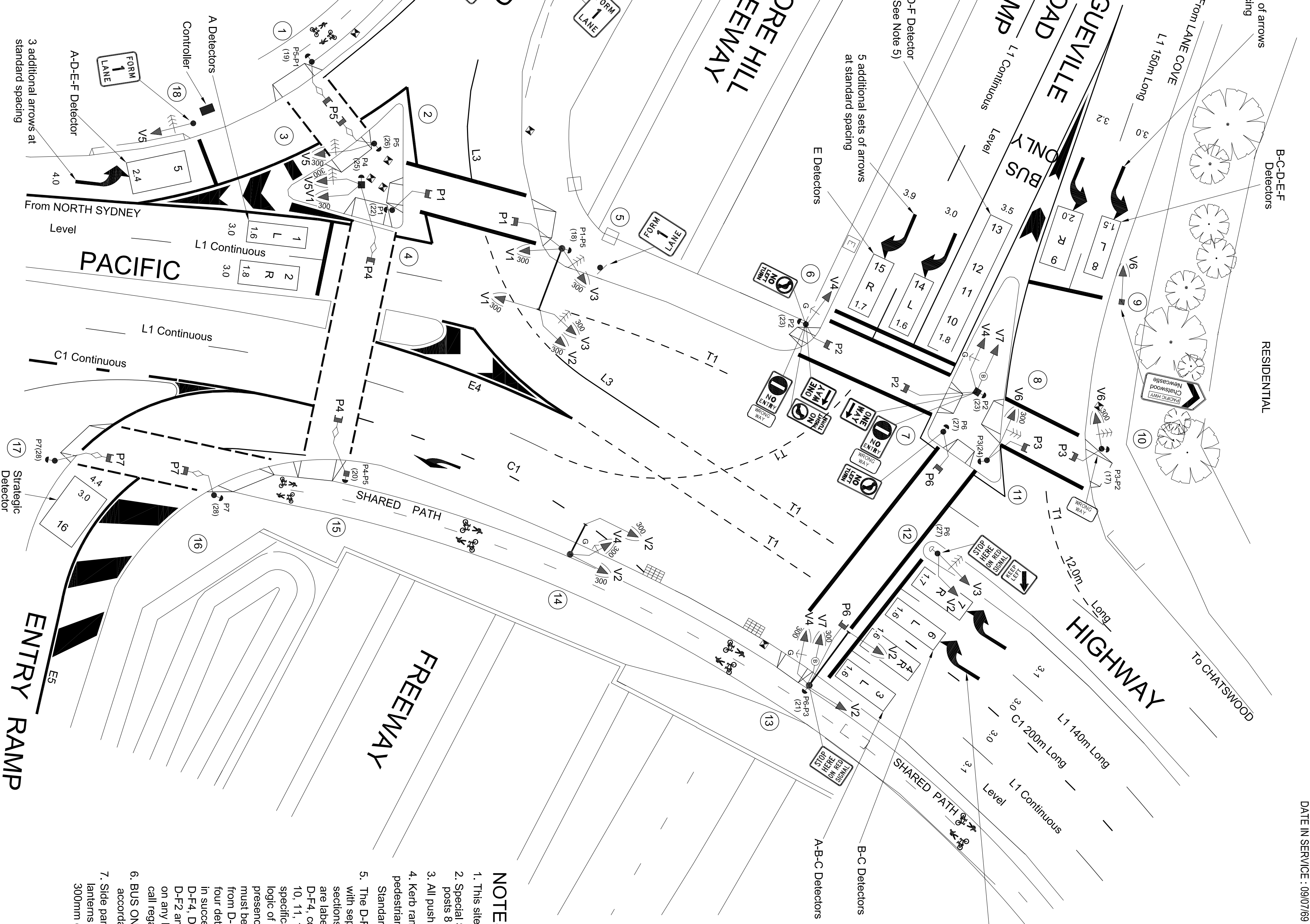
Detector	Specifications		
A	FN SG/PS DS	ALU A	AE(3) A G(NEXT) C(E1) B(C/L) AB-C(NG,XSF2)
A-B-C	FN SG/PS DS	ALU V2 B	AE(1) A B ANEXT ANEXT D(E2)
A-D-E-F	FN SG/PS DS	ALU V5 D/E/F	AE(2) A D ANXT,E(NXT),F(NXT),G(NXT) E(E2)
A-D-E-F cont.	DS FN SG/PS	ANEXT),D(NEXT),E(NEXT),G(NEXT) BLU V3 C	ANXT),D(NXT),F(NXT),G(NXT) E E(E2)
B-C	FN SG/PS DS	BLU V3 C	B(C/L) C C
B-C-D-E-F	FN SG/PS DS	BLU V6 C/D,E,F	C(E3) C C
B-C-D-E-F cont.	DS FN SG/PS	D(NEXT),E(NEXT),F(NEXT) E E(E3)	B(NEXT),D(NEXT),E(NEXT),F(NEXT) F F(E3)
D-F1	FN SG/PS DS	D(PPR) V7 D-F2(DET),D-F3(DET),XSF3	D(PPR) V7 XSF3
D-F1 cont.	DS FN SG/PS	D-F2(DET),D-F3(DET),XSF3,Z+ D(PPR) V7	XSF3,Z+ D(PPR) V7
D-F2	FN SG/PS DS	D-F3(DET),D-F4(DET),XSF3 F(PPR) V7	XSF3 F(PPR) V7
D-F2 cont.	DS FN SG/PS	D-F3(DET),D-F4(DET),XSF3,Z+ D(PPR) V7	XSF3,Z+ D(PPR) V7
D-F3	FN SG/PS DS	D(PPR) V7 XSF3	D(PPR) V7 XSF3,Z+
D-F4	FN SG/PS DS	D(PPR) V7 XSF3	D(PPR) V7 XSF3,Z+
E	FN SG/PS DS	E(L) E -	E(E1) E -
P1 P.B.	FN SG/PS DS	A(PB) P1(WALK) D,E,F	Reintroduce Walk V1,P1(WALK) B,C
P1-P5 P.B.	FN SG/PS DS	A(PB),B(PB) P5,P1(WALK) D,E,F	Reintroduce Walk V1,P1(WALK) B,C
P2 P.B.	FN SG/PS DS	A(PB) P2(WALK) B,C,G	Reintroduce Walk AB(C,P2(WALK) D,E,F
P3 P.B.	FN SG/PS DS	A(PB) P3(GWALK) -	Walk For Green A,G Auto Intro A,G
P3-P2 P.B.	FN SG/PS DS	A(PB) P3(WALK) -	Walk For Green A,P3(WALK) B,C,D,E,F
P4-P5 P.B.	FN SG/PS DS	C(PB) P4(WALK) -	Auto Intro B,C B,C Auto Intro B,C
P5 P.B.	FN SG/PS DS	B(PB) V3,P5(WALK) C	Walk For Green V3,P5(WALK) AD,E,F
P5-P1 P.B.	FN SG/PS DS	B(PB) V3,P5(WALK) C	Walk For Green V3,P5(WALK) AD,E,F
P6 P.B.	FN SG/PS DS	E(PB) D/E,F,P6(WALK) D,F	Reintroduce Walk D/E,F,P6(WALK) A,B,C
P7 P.B.	FN SG/PS DS	G(PB) C/G,P7(WALK) C	Auto Intro B,C C/G,P7(WALK) A,D,E,F,B

MOVEMENTS



SPECIAL SIGNAL GROUP DISPLAY SEQUENCE

SIGNAL GROUP	A	B	C	D	E	F	G	REMARKS
V1	X							
V2	X	X	C					
V3	X	X						
V4	X							
V5	X	X	X	X	X	X	X	
V6	X	X	X	X	X	X	X	
V7	X							
P1	X							
P2	X	X	X					
P3	X							
P4	X	X						
P5	X	X						
P6	X	X						
P7	X							



POST	TYPE	LENGTH	REMARKS
1	2	3.2	EXIST
2	2	4.1	EXIST
3	6	-	EXIST
4	2	3.2	EXIST
5	5XL	-	EXIST
6	2	4.1	EXIST
7	2	3.2	EXIST
8	6	-	EXIST
9	6	-	EXIST
10	2	4.1	EXIST
11	2	4.1	EXIST
12	2	4.1	EXIST
13	5XL	-	EXIST
14	5S	-	EXIST
15	6	-	EXIST
16	2	3.2	EXIST
17	2	3.2	EXIST
18	2	4.1	EXIST

NOTES

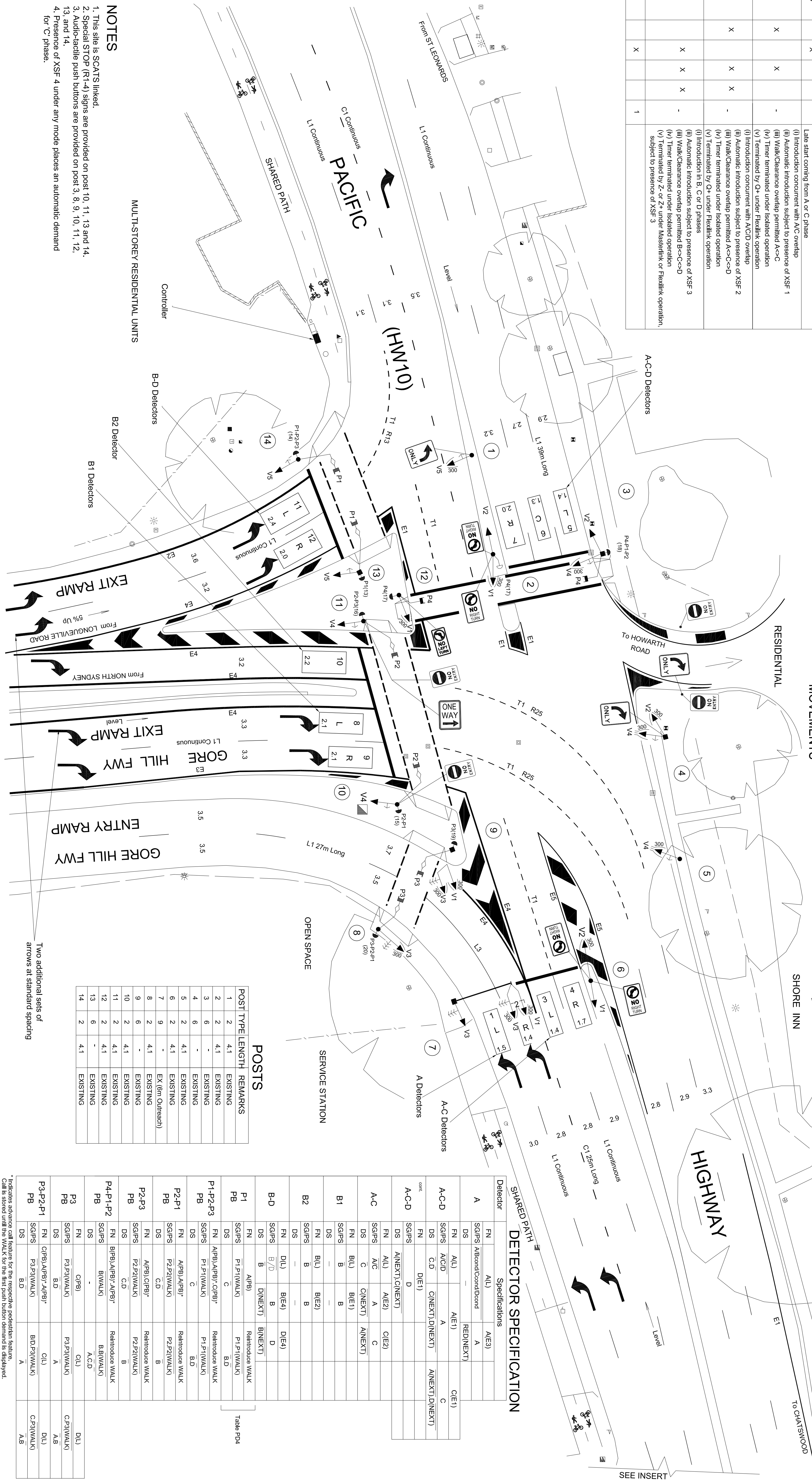
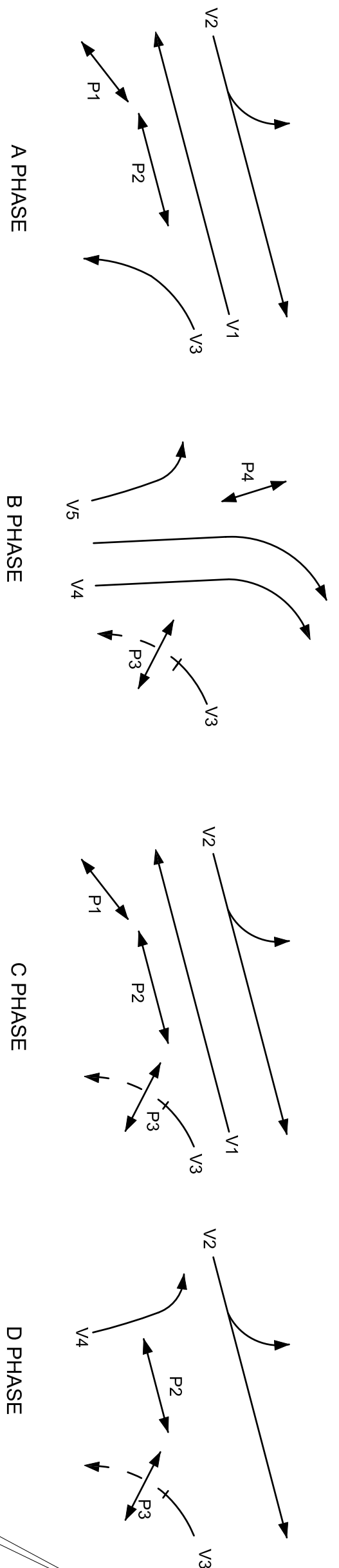
- This site is SCATS linked.
- Special STOP sign (R1-4) placed on posts 8 & 9.
- All push buttons are audio tactile.
- Keyp ramps to be constructed at all pedestrian crossings in accordance with Standard (Road) Drawing R0300-11.
- The D-F Detector is an 11m loop with separate inputs to both sections at each 4.5m loop. These are labelled D-F1, D-F2, D-F3 and D-F4, corresponding to detectors 10, 11, 12 and 13. The detector specification attempts to show the logic of operation. For a D or F presence call to occur, detectors must be actuated in succession from D-F4 to D-F1. Three out of four detectors must remain on and in succession for a call to occur, ie D-F4, D-F3 and D-F2 or D-F3, D-F2 and D-F1. A detector alarm on any D-F detector results in a call regardless of the above.
- BUS ONLY lane to be coloured red in accordance with Technical Direction R10.
- Side panels of target board for dual aspect lanterns on post 12 removed to maintain 300mm clearance to all traffic movements.

A ORIGINAL ISSUE

PUBLIC UTILITY LEGEND		DESIGN APPROVAL		RMS RECOMMENDATION		RMS ACCEPTANCE		ROADS AND MARITIME SERVICES	
HYDRAUNT	SYMBOL	SYMBOL	SYMBOL	NAME	POSITION	NAME	POSITION	NAME	POSITION
STOP VALVE	STD POSN	STD POSN	STD POSN	R. NUTTIE	DIRECTOR	R. NUTTIE	DIRECTOR	LANE COVE COUNCIL AREA	TRAFFIC SIGNALS AT
GAS VALVE	INSTL STOP DET	INSTL STOP DET	INSTL STOP DET	DATE	22/12/20	DATE	22/12/20	PACIFIC HIGHWAY (HW10)	AND LONGUEVILLE ROAD
SEWER MANHOLE	VEH GROUP OP	VEH GROUP OP	VEH GROUP OP	CHECKED	M. KONG	CHECKED	M. KONG	LANE COVE	
COMMS PIT	DET LOGIC OP	DET LOGIC OP	DET LOGIC OP	DATE	22/12/20	DATE	22/12/20		
ELECT LIGHT POLE	PED WTC OP	PED WTC OP	PED WTC OP	DESIGN PREPARED BY	TRANSPORT AND TRAFFIC PLANNING ASSOCIATES	DESIGN PREPARED BY	TRANSPORT AND TRAFFIC PLANNING ASSOCIATES		
POWER POLE	STAY POLE	STAY POLE	STAY POLE	NAME	POSITION	NAME	POSITION		
TELEPHONE BOX	TELEPHONE BOX	TELEPHONE BOX	TELEPHONE BOX	DATE		DATE			
COMMS PILLAR	COMMS PILLAR	COMMS PILLAR	COMMS PILLAR	DATE		DATE			

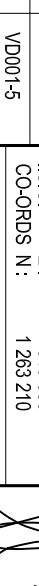
SPECIAL SIGNAL GROUP DISPLAY SEQUENCE

SIGNAL GROUP	PHASE DURING WHICH GREEN DISPLAYED				REMARKS
	A	B	C	D	
V1	X			-	ECO going to B phase
V2	X		X	X	Overlaps permitted A<-C<-D
V3	X	X	X	-	Full protection for B/C/D pedestrians Overlaps permitted A-B<-C<-D, subject to B/C/D pedestrian
V4		X		1	
V5		X		-	Overlaps permitted B<-D Late start coming from A or C phase
P1	X		X	-	(i) Introduction concurrent with A/C overlap (ii) Automatic introduction subject to presence of XS F 1 (iii) Walk/Clearance overlap permitted A<-C<-C (iv) Timer terminated under isolated operation (v) Terminated by Q+ under Flexlink operation
P2	X		X	-	(i) Introduction concurrent with A/C/D overlap (ii) Automatic introduction subject to presence of XS F 2 (iii) Walk/Clearance overlap permitted A<-C<-C<-D (iv) Timer terminated under isolated operation (v) Terminated by Q+ under Flexlink operation
P3	X	X	X	-	(i) Introduction in B, C and D phases (ii) Automatic introduction subject to presence of XS F 3 (iii) Walk/Clearance overlap permitted B<-C<-C<-D (iv) Timer terminated under isolated operation (v) Terminated by Z- or Z+ under Masterlink or Flexlink operation, subject to presence of XS F 3
P4	X			1	



NOTES

1. This site is SCATS linked.
2. Special STOP (R1-4) signs are provided on post 10, 11, 13 and 14.
3. Audio-tactile push buttons are provided on post 3, 8, 9, 10, 11, 12, 13, and 14.
4. Presence of XSF 4 under any mode places an automatic demand for 'C' phase.

A ORIGINAL ISSUE									
PUBLIC UTILITY / E&SD		REFERENCE PLANS		DESIGN APPROVAL		RMS RECOMMENDATION		RMS ACCEPTANCE	
HYDRAUNT		SYMBOLS/STATUS	U.S.G. Ref.	U.S.G. Ref.	APPROVED	RMS RECOMMENDATION	RMS ACCEPTANCE		
STOP VALVE	☐	STD POSN CLAPT	10003-4	10003-4		RMS RECOMMENDATION	RMS ACCEPTANCE		
GAS VALVE	☐	INSTL STOP DET	10003-5	10003-5		ROAD DESIGN ENGINEERING	ACCEPTED		
SINKER MANHOLE	☐	VEN GROUP OP	10003-17	10003-17		NAME	NAME		
COMMS PRT	☐	DET LOCOP OP	TS-1N419	TS-1N419		POSITION	POSITION		
ELECT LIGHT POLE	☐	FED LOCOP OP	TS-1N420	TS-1N420		DATE	DATE		
POWER POLE	☐	FED WRT OP	TS-1N421	TS-1N421	NETWORK OPERATIONS		ACCEPTED BY		
S/W POLE	☐				DESIGN PREPARED BY		NAME		
TELEPHONE BOX	☐	SURVEYOR: SUREX			TRANSPORT AND TRAFFIC		POSITION		
COMMS PLANT	☐	DATE: 2004			PLANNING ASSOCIATES		DATE		
ROADS AND MARITIME SERV/ICES									
WILLOUGHBY COUNCIL AREA									
TRAFFIC SIGNALS AT									
PACIFIC HIGHWAY (HW10)									
AND GORE HILL FREEWAY RAMPS									
ARTARMON									
DESIGN LAYOUT									
EXISTING		PROPOSED							
CAD/D FILE: VV2847_??_DES.dgn									
SCALE		5 0 (1:200) 5 10							
FILE		SF70000/000000		SHEETS/ISSUE		12/D		?	
REG No.		DS0000/0000000		TCS No.		2847		SHEET ?	

DRAWN BY CADD

DO NOT AMEND MANUALLY

TCS 0579

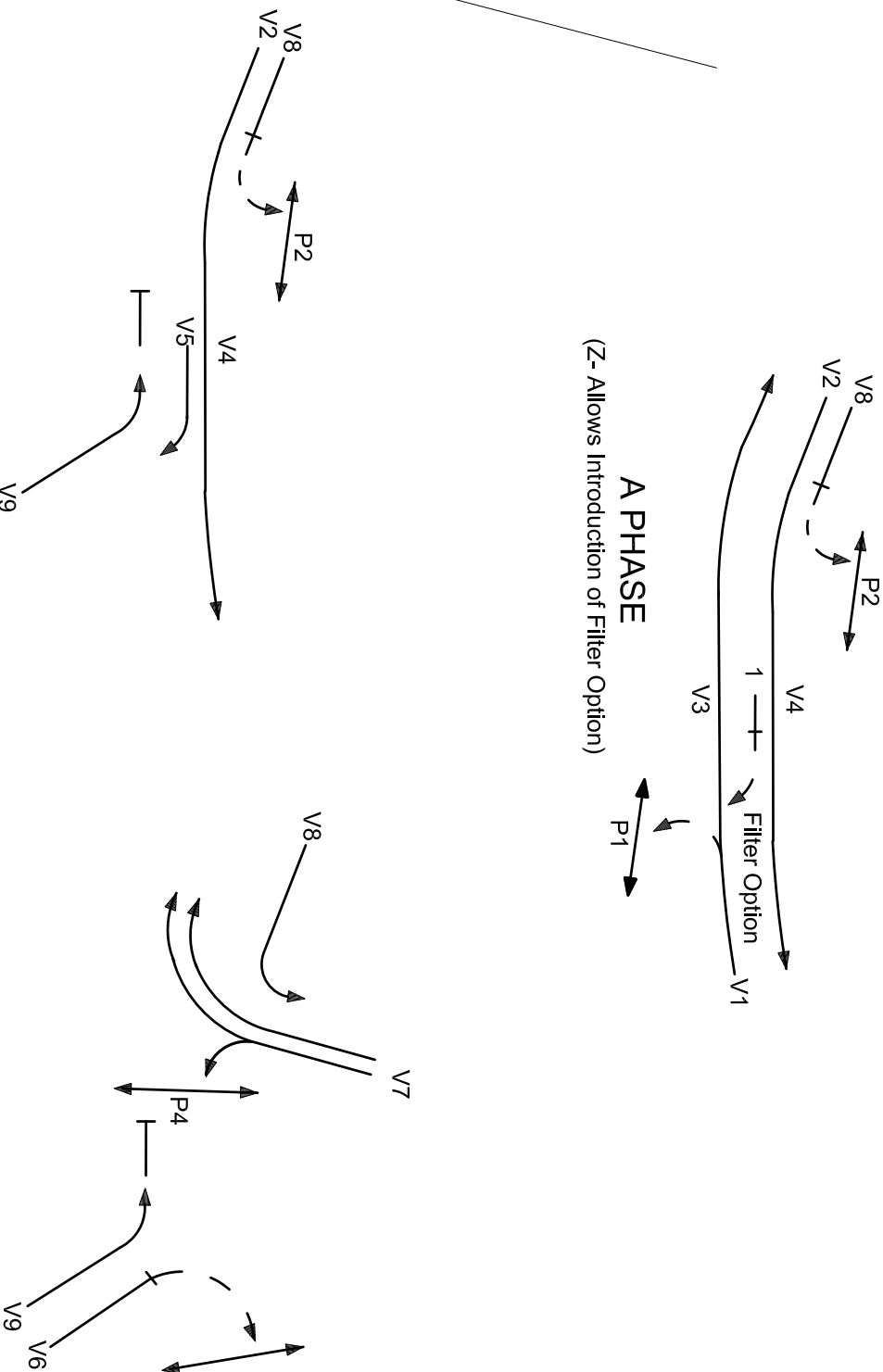
NOTES

1. This site is SCATS linked.
2. Special STOP (R1-4) sign placed on posts 1 and 9.
3. Audio tactile push buttons are provided on posts 1, 2, 4, 7, 8, 9, 11 and 15.
4. V3 lanterns on post 11, 12 and 13 are angled such that they are not clearly visible at, or beyond the stopline near post 6.
5. V4 lanterns on post 3, 4, 5 and 6 are angled such that they are not clearly visible at, or beyond the stopline near post 14.
6. V2 and V8 lanterns on post 2 mounted on off-set bracket such that they are clearly visible to east bound traffic.
7. Kerb ramps are in accordance with Standard (Road) drawing R0300-11
8. Trees to be kept trimmed regularly by Council to maintain lantern visibility.

POSTS	TYPE	LENGTH	OFFSET	REMARKS
1	2	4.1	1.0	Existing
2	2	4.1	1.0	Existing
3	2	4.1	1.0	Existing
4	2	4.1	1.0	Existing
5	2	4.1	-	Existing
6	5L	-	1.0	Existing
7	2	3.2	1.3	Existing
8	2	3.2	1.9	Existing
9	2	4.1	1.0	Existing
10	ELP	-	-	Existing
11	2	4.1	1.0	Existing
12	2	4.1	0.6	Existing
13	2	4.1	-	Existing
14	2	4.1	1.0	Existing
15	2	3.2	1.0	Existing

POSTS

MOVEMENTS



DETECTOR SPECIFICATION

Detector	Specifications			
	FN	AL(L)	A(E3)	
A	SG/PS	A	A	
	DS	-	-	
A-B-D1	FN	B(PR)	D(PR)	
	SG/PS	A	A	
Depart. & Approach	DS	Z-	Z-Z+	
	FN	AL(B/L)	D(L)	B(L)
A-B-D1	SG/PS	V4	V4	D(L)
	DS	Z-	Z-Z+	V5
Approach	DS	Z-	Z-Z+	Z-Z+
	FN		A(E1)	B(E1)
A-B-D1	SG/PS		A	B
	DS	A-B-D1 (PR), Z- B(NEXT), D(NEXT)	D(NEXT)	B(NEXT)
A-B-D2	FN	AL(L)	A(E2)	B(E2)
	SG/PS	V2	A	B
DS	DS	-	B(NEXT), D(NEXT)	A(NEXT), B(NEXT)
	FN	C(L)	C(E1)	
C1	SG/PS	V6	C	
	DS	-	-	
C2	FN	C(L)	C(E2)	
	SG/PS	V7	C	
DS	DS	-	-	
	FN	B(PR)	D(PR)	C(E3)
B-C-D	SG/PS	V9	V9	B
	DS	C	C-Z+	D

DETECTOR SPECIFICATION CONT.

Detector	Specifications			
	FN	A(P/B)	B(L)	
P1	SG/PS	P1(WALK)	A-P1(WALK)	
	DS	-	B, C, D	
P2	FN	A(P/B)		
	SG/PS	V2(P2WALK)		
P.B.	DS	B, D		
	FN	C(P/B)	AL(L)	
P3	SG/PS	P3(WALK)	C-P3(WALK)	
	DS	-	A, B, D	
P4	FN	C(P/B)	AL(L)	
	SG/PS	P4(WALK)	C-P4(WALK)	
P.B.	DS	A, B, D		

SIGNAL GROUP/PHASE CHART

SIGNAL GROUP	PHASES WHEN GREEN				STANDARD TABLE	REMARKS
	A	B	C	D		
V1	X				51	Early cutoff. A → B, C, D
V2	X	X		X	53	Early cutoff in A,B,D → C
V3	X				1	
V4	X	X		X	3	A → B → D
V5		X		X	-	Timed red arrow protection for P1 ped Z-filter option + ES in A → BD
V6			X		73	Timed red protection for P3 pedestrian
V7			X		-	ES in BD → C
V8				X	83	Timed RA protection for P1 pedestrian
V9	C	C	X	C	-	Full red arrow protection for P2 pedestrians
V10		X	X	X	10	
V11	X				83	Timed RA protection for P4 pedestrian
P1	X				-	Auto Intro subject to Presence of XSF1
P2	X	X		X	-	Re-Introduction in A phase
P3			X		1	
P4			X		-	ES in BD → C

A ORIGINAL ISSUE

HYDRANT

STOP VALVE

GAS VALVE

SEWER MANHOLE

COMMS PIT

ELECT LIGHT POLE

POWER POLE

STAY POLE

TELEPHONE BOX

COMMS PILLAR

☐

☐

☒

☐

☐

☐

☐

☐

☐

SYMBOLS/ABBVS

STD POSN CLPT

V0006-17

VER GROUP GP

DET LOGIC GP

TS1N400

TS1N421

U.S.D. Ref

E

Mag 715 2H

316 650

1259 715

DESIGNED - J. SMITH

CHECKED - M. KING

SITE CHECKED

B.L.O.

RECOMMENDED

DESIGN APPROVAL

APPROVED

NAME

POSITION

DATE

22/12/2020

DESIGN PREPARED BY

TRANSPORT AND TRAFFIC PLANNING ASSOCIATES

NAME

POSITION

DATE

RMS RECOMMENDATION

ROAD DESIGN ENGINEERING

ACCEPTED

NAME

POSITION

DATE

RMS ACCEPTANCE

ACCEPTED

NAME

POSITION

DATE

ROADS AND MARITIME SERVICES

LANE COVE COUNCIL AREA

TRAFFIC SIGNALS AT

PACIFIC HIGHWAY (HW 10)

HOTHAM PARADE AND OSBORNE ROAD

ARTARMON

DESIGN LAYOUT

EXISTING

PROPOSED

CADD FILE: VV0579_??_DES.dgn

SCALE

5

0

10

1:200

5

10

FILE

ST0000/000000

SHEET/ISSUE

9/H

REG No.

DS00000/000000

TCS No.

0579

SHEET

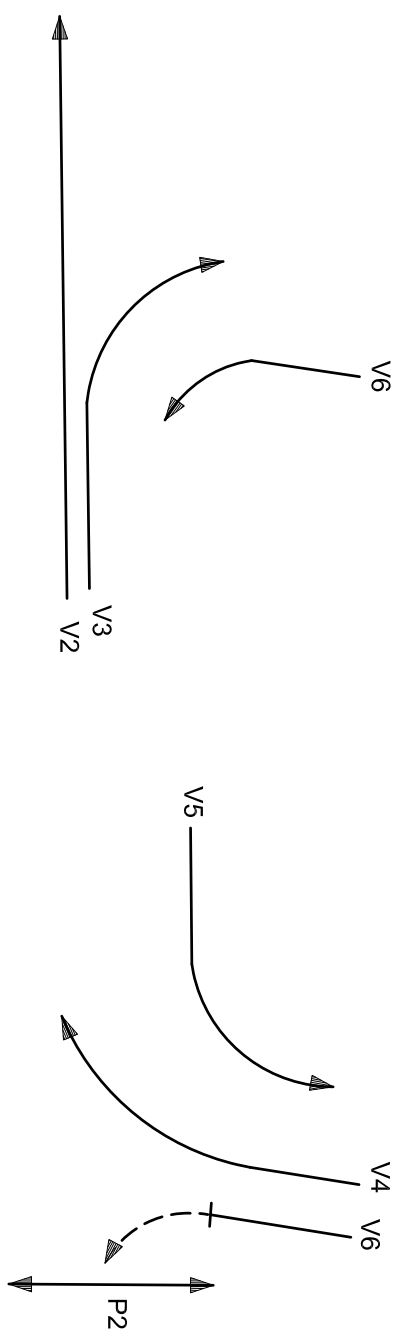
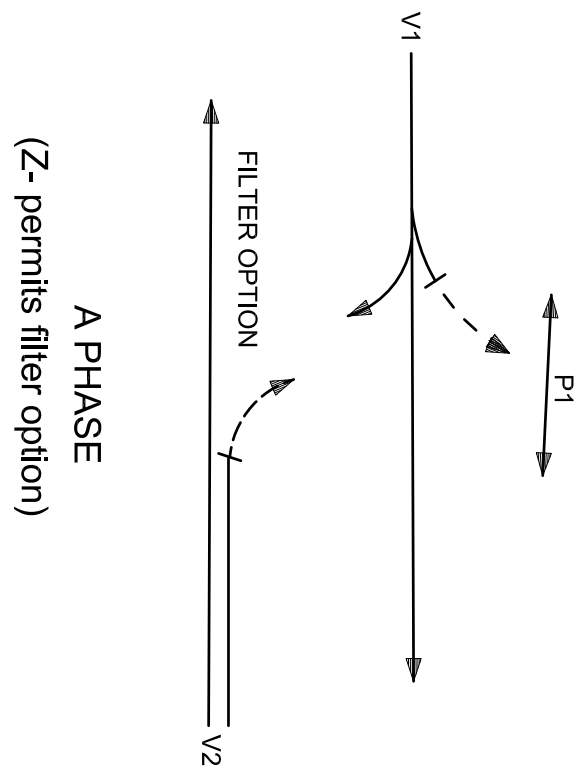
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Revision 6 - July 2017

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DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 03/05/71

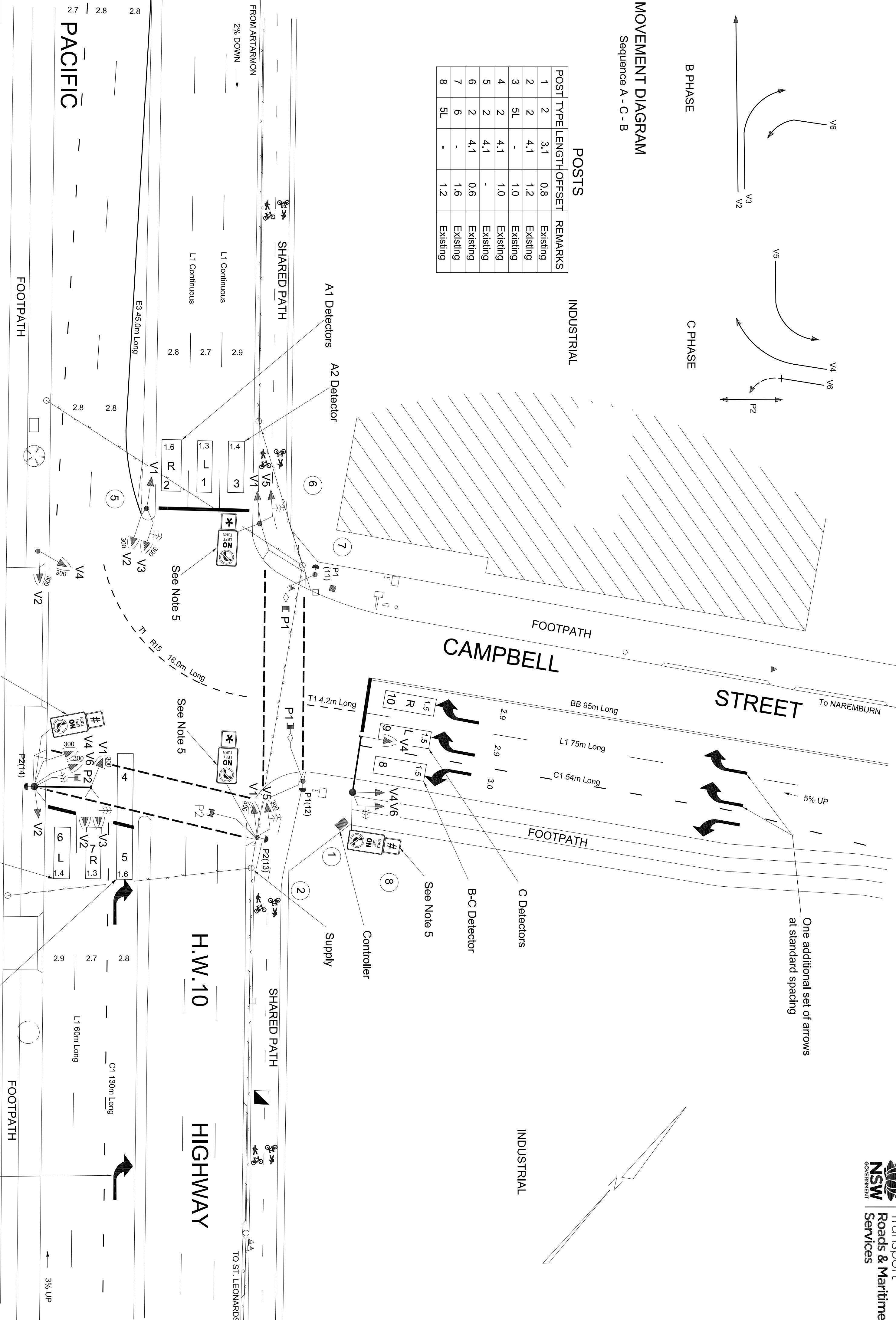


MOVEMENT DIAGRAM
Sequence A - C - B

POSTS				REMARKS
1	2	3.1	0.8	Existing
2	2	4.1	1.2	Existing
3	5L	-	1.0	Existing
4	2	4.1	1.0	Existing
5	2	4.1	-	Existing
6	2	4.1	0.6	Existing
7	6	-	1.6	Existing
8	5L	-	1.2	Existing

DETECTOR SPECIFICATION

Detector	Specifications			
	FN	AL(L)	A(E1)	
A1	SG/PS	A	A	
	DS	-	-	
A2	FN	A(P/R)	A(E4)	
	SG/PS	A	A	
A-B1	DS	-	-	
	FN	B(P/R)		
Depart. & Approach	SG/PS	B		
	DS	Z-		
A-B1	FN	AL(L),BL	BL(L)	A(E3)
	SG/PS	V2	B	A
Approach	DS	Z-	Z-,A-B(P/R),B(NEXT)	B
	FN	AL(L)	A(E2)	B(E2)
A-B2	SG/PS	V2	A	B
	DS	-	B(NEXT)	A(NEXT)
B-C	FN	B(P/R)	B(E1)	C(E1)
	SG/PS	B,C	B	C
C	DS	C	C(NEXT)	B(NEXT)
	FN	CL(L)	C(E2)	
P1	SG/PS	A(P/B)	CL(L)	
	DS	-	-	
PB	SG/PS	P1(WALK)	A,P1(WALK)	
	FN	C(P/B)	AL(L)	
P2	SG/PS	P2(WALK)	C,P2(WALK)	
	DS	-	A,B	



SIGNAL GROUP/PHASE CHART

SIGNAL GROUP	PHASES WHEN GREEN			REMARKS
	A	B	C	
V1	X			1
V2	X	X		4
V3		X		82
V4			X	1
V5		X		76
V6	X		C	77
P1	X		2	2
P2		X	2	2

NOTES:

1. This site is SCATS linked.
2. Audio tactile push buttons provided on posts 1, 2, 3 and 7.
3. Special STOP sign (R1-4) is place on post 8.
4. Provision is made in cabling for future northern pedestrian crossing.
5. * No Left Turn, 7am-10am MON-FRI, Vehicles Under 12.5m Excepted.
6. Kerb ramps are in accordance with Standard (Road) Drawing R0300-11

A ORIGINAL ISSUE

HYDRANT

STOP VALVE

GAS VALVE

SEWER MANHOLE

COMMS PIT

ELECT LIGHT POLE

POWER POLE

STAY POLE

TELEPHONE BOX

COMMS PILLAR

☐

☐

☒

☐

☐

☐

☐

☐

☐

☐

SYMBOL SUBS/VIS

STD POSN CLIP

INSTL STOP DET

VEH GROUP OP

DETL LOGIC OP

FED W/TC OP

SURVEYOR

WORTON SURVEY P/S

DATE

2008

REFERENCE PLANS

U.S.D. Rd

E.

Mag 715 K3

U.S.G.

E.

315 775

COLOURS N:

1 259 444

DESIGN APPROVAL

APPROVED

DESIGNED: J. SMITH

CHECKED: M. KONG

DATE: 22/12/200

DESIGN PREPARED BY

TRANSPORT AND TRAFFIC PLANNING ASSOCIATES

RMS RECOMMENDATION

ROAD DESIGN ENGINEERING

NAME

POSITION

DATE

NETWORK OPERATIONS

NAME

POSITION

DATE

RMS ACCEPTANCE

ACCEPTED

NAME

POSITION

DATE

ACCEPTED BY

SECTION

ROADS AND MARITIME SERVICES

LANE COVE COUNCIL AREA

TRAFFIC SIGNALS AT

PACIFIC HIGHWAY (HW 10)

AND CAMPBELL STREET

ARTARMON

EXISTING

PROPOSED

CADD FILE: VV0585_??_DES.dgn

SCALE

5

0

10

1:200

5

10

FILE

ST0000/000000

SHEET/ISSUE

13/B

REG NO.

DS00000/000000

TCS No.

0585

SHEET

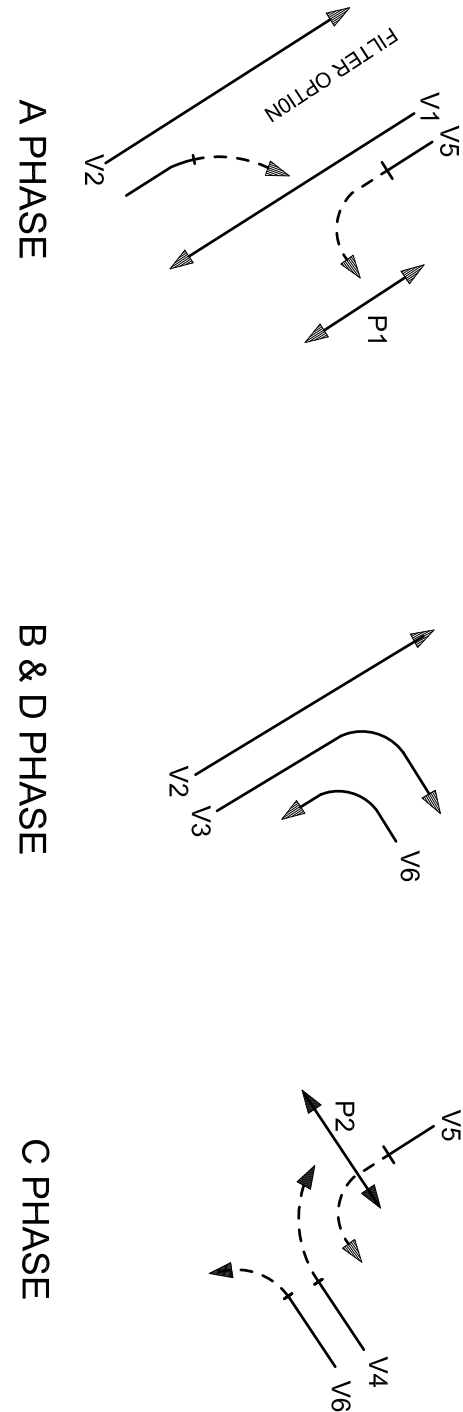
?

Revision 6 - Jan 2017

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DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 23/10/75

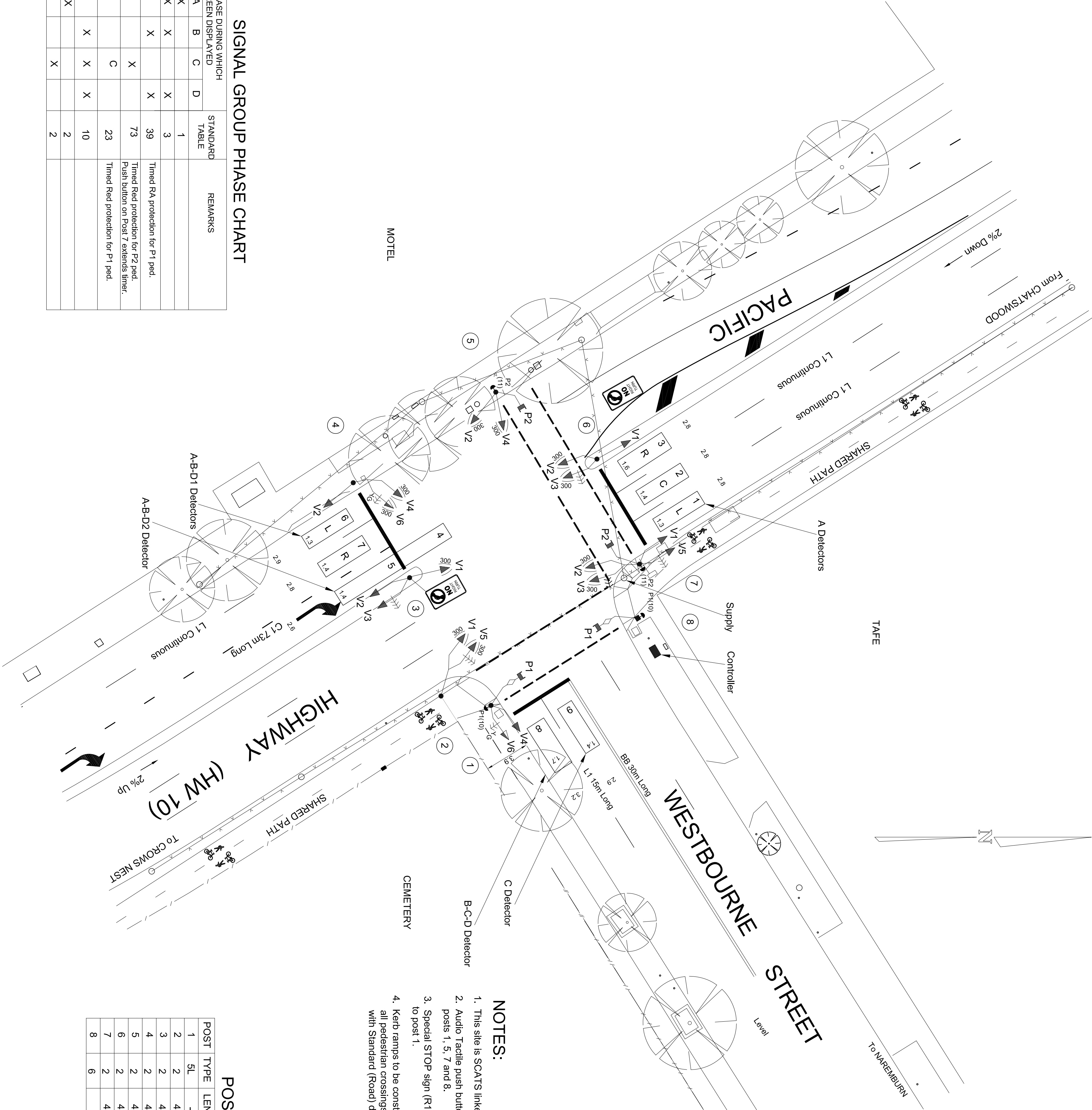


DETECTOR SPECIFICATION

DETECTOR	SPECIFICATION			
	FN	A(L)	A(E1)	
A	SG/PS	A	A	
	DS	-	-	
A-B-D1	FN	B(P/R)	D(P/R)	
	SG/PS	A	A	
Depart. & Approach	DS	Z-	Z-Z+	
	FN	A(L),B(L)	D(L)	D(L)
A-B-D1	SG/PS	V2	V2	V3
	DS	Z-	Z-Z+	Z-
cont.	FN		A(E3)	B(E3)
	SG/PS			D(E3)
A-B-D1	DS	Z-A-B-D1(P/R),B(NEXT),D(NEXT)		D(NEXT)
	FN	A(L)	A(E2)	B(E2)
A-B-D2	SG/PS	V2	A	B
	DS	-	B(NEXT),D(NEXT)	A(NEXT),D(NEXT)
cont.	FN		D(E2)	
	SG/PS			
A-B-D2	DS	A(NEXT),B(NEXT)		
	FN	B(P/R)	D(P/R)	B(E1)
B-C-D	SG/PS	B,C,D	B,C,D	B
	DS	C	Z+C	C(NEXT),D(NEXT)
cont.	FN		C(E1)	D(E1)
	SG/PS			
B-C-D	DS	B(NEXT),D(NEXT)		B(NEXT),C(NEXT)
	FN	C(L)	C(E2)	
C	SG/PS	C	C	
	DS	-	-	
P1	FN	A(P/B)	C(L)	
	SG/PS	P1(WALK)	A,P1(WALK)	
P.B.	DS	-	B,C,D	
	FN	C(P/B)	A(L)	
P2	SG/PS	P2(WALK)	C,P2(WALK)	
	DS	-	A,B,D	

SIGNAL GROUP PHASE CHART

SIGNAL GROUP	PHASE DURING WHICH GREEN DISPLAYED				STANDARD TABLE	REMARKS
	A	B	C	D		
V1	X	X		X	3	
V2	X	X		X	39	Timed RA protection for P1 ped.
V3		X		X	73	Timed Red protection for P2 ped.
V4		X				Push button on Post 7 extends timer.
V5			X		23	Timed Red protection for P1 ped.
V6		X	X	X	10	
P1	X				2	
P2		X			2	



NOTES:

- This site is SCATS linked
- Audio Tactile push buttons placed on posts 1, 5, 7 and 8.
- Special STOP sign (R1-4) attached to post 1.
- Kerb ramps to be constructed at all pedestrian crossings in accordance with Standard (Road) drawing R0300-11.

POSTS

POST	TYPE	LENGTH	OFFSET	REMARKS
1	5L	-	1.0	Existing
2	2	4.1	1.0	New
3	2	4.1	1.0	Existing
4	2	4.1	1.0	Existing
5	2	4.1	1.0	Existing
6	2	4.1	1.0	Existing
7	2	4.1	1.0	Existing
8	6	-	1.0	Existing

A ORIGINAL ISSUE

PUBLIC UTILITY LEGEND	REFERENCE PLANS	U.B.D. Ref.	Map 2151.5
HYDRANT	☐	SYMBOL SHOWN	V0003-6
STOP VALVE	☐	STD POSN. CALLT	V0001-5
GAS VALVE	☐	INSTL STOP DET	V0003-17
SEWER MANHOLE	☐	VEH GROUP OP	TS1N1019
COMMS PIT	☐	DET LOGIC OP	TS1N1420
ELECT LIGHT POLE	☐	FED WLT OP	TS1N1421
POWER POLE	☐		
STAY POLE	☐		
TELEPHONE BOX	☐	SURVEYOR: WILLOUGHBY COUNCIL	
COMMS PLANK	☐	DATE	200

DESIGN APPROVAL	RMS RECOMMENDATION	RMS ACCEPTANCE
APPROVED	ROAD DESIGN ENGINEERING	ACCEPTED
NAME	NAME	NAME
POSITION	POSITION	POSITION
DATE	DATE	DATE

ROADS AND MARITIME SERVICES	WILLOUGHBY COUNCIL AREA
TRAFFIC SIGNALS AT	PACIFIC HIGHWAY (HW10)
AND WESTBOURNE STREET	ST LEONARDS

EXISTING	PROPOSED
CADD FILE: VV1111_??_DES.dgn	SCALE
SCALE	SCALE
FILE	FILE
REG No.	REG No.
DS00000/000000	1111

DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 07/08/69

SIGNAL GROUP PHASE CHART

SIGNAL GROUP	PHASE DURING WHICH GREEN DISPLAYED					TABLE TYPE	REMARKS
	A	B	C	D	E		
V1	X	X			X		
V2	X		X				X
V3		X		X	X		
V4			X		X		X
V5/V6				X			
V7			X		X		X
V8		X			X		
V9							
V10							
V11							
V12							
P1	X	X			X		
P2	X		X				X
P3				X			
P4				X			

Push button on post 3 provides conditional extended protection for P3.

GORE HILL PARK

RESERVE ROAD
PEEEK
To ROYAL NORTH SHORE HOSPITAL

COMMERCIAL

MOVEMENTS

E PHASE

E1 PHASE

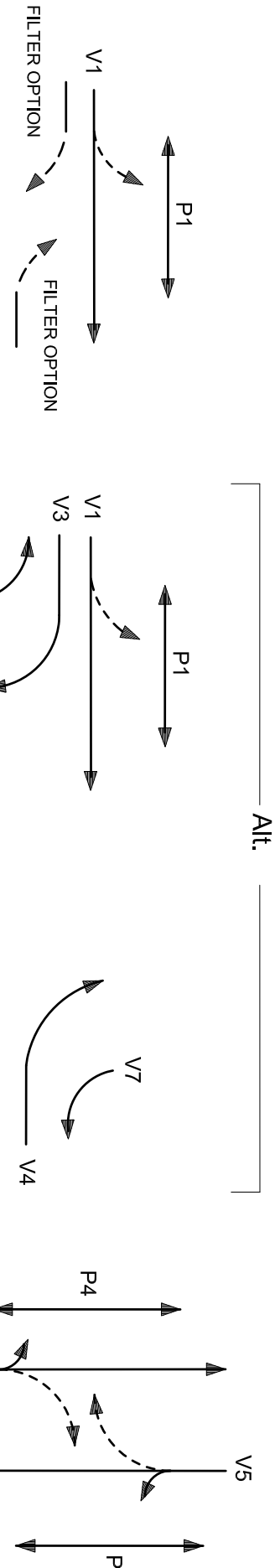
E2 PHASE

A PHASE

B PHASE

C PHASE

D PHASE



POSTS	TYPE	LENGTH	OFFSET	REMARKS
1	2	4.1	0.6	Existing
2	2	4.1	0.7	Existing
3	3	-	0.6	Existing
4	6	-	1.0	Existing
5	2	4.1	0.7	Existing
6	2	4.1	0.9	Existing
7	2	4.1	-	Existing
8	2	4.1	1.0	New
9	2	3.2	0.8	Existing

COMMERCIAL

PACIFIC (SH 10)

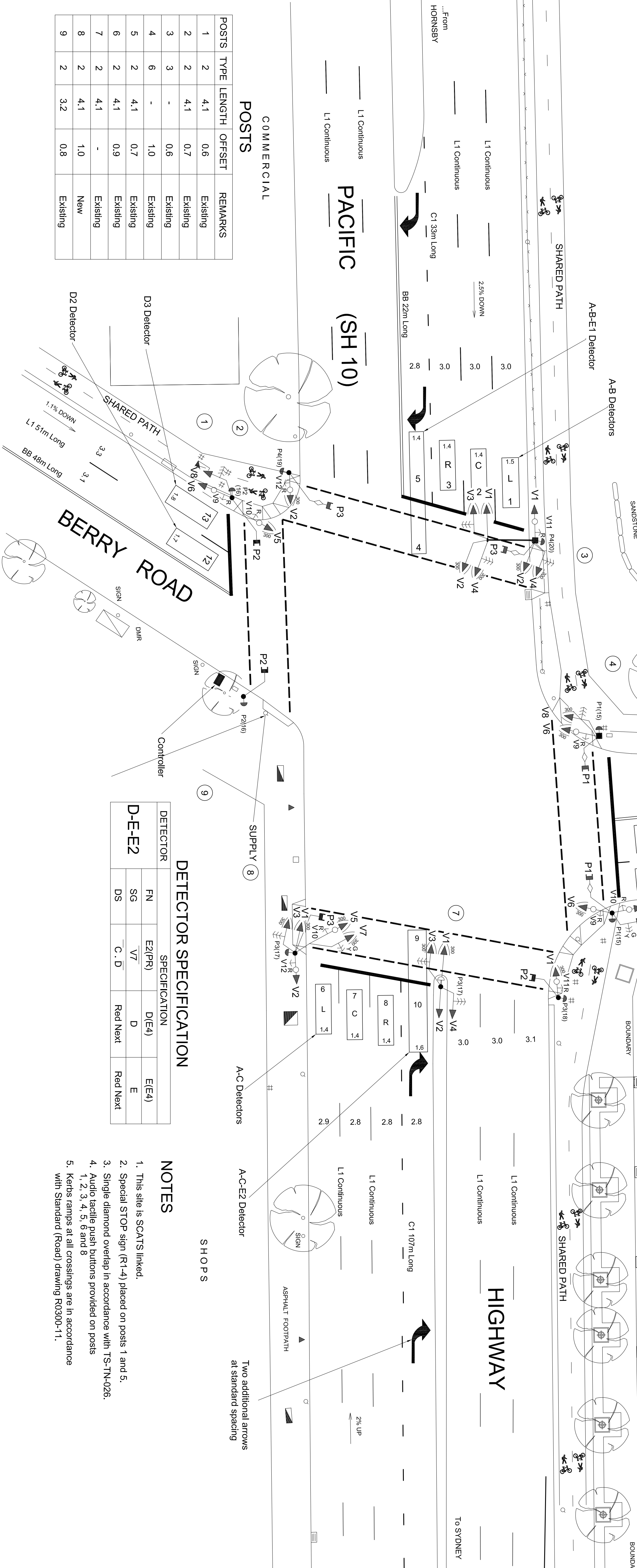
HIGHWAY

DETECTOR SPECIFICATION

DETECTOR	FN	EQ(PR)	D(E4)	E(E4)
D-E-E2	SG	V7	D	E
	DS	C, D	Red Next	Red Next

NOTES

- This site is SCATS linked.
- Special STOP sign (R1-4) placed on posts 1 and 5.
- Single diamond overlap in accordance with TS-TN-026.
- Audio tactile push buttons provided on posts 1, 2, 3, 4, 5, 6 and 8
- Kerbs ramps at all crossings are in accordance with Standard (Road) drawing R0300-11.



A ORIGINAL ISSUE

ROADS AND MARITIME SERVICES

NORTH SYDNEY COUNCIL AREA
TRAFFIC SIGNALS AT
PACIFIC HIGHWAY (HW 10),
BERRY ROAD AND RESERVE ROAD
ST LEONARDS

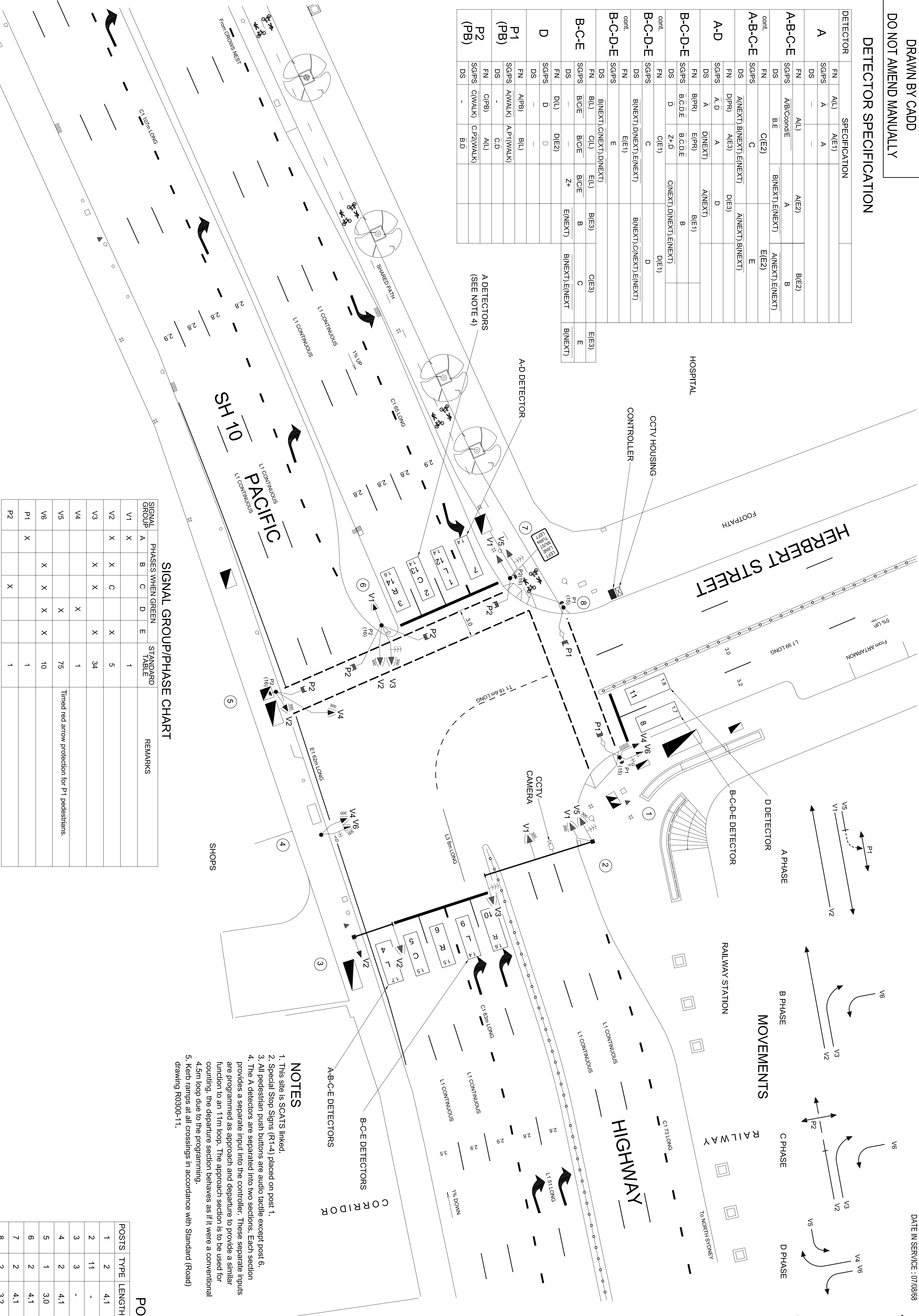
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☐	☒
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REG No. DS00000/000000	TCS No. 0771
	SHEET ?

DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 07/08/68

DETECTOR SPECIFICATION

DETECTOR	SPECIFICATION	
	FN	ALU) ALE1)
A	SGPS	A
	DS	-
A-B-C-E	FN	ALU) ALE2)
	SGPS	AB/Coode A
cont	DS	B/E B/NEXT)E(NEXT)
	FN	C/E2) E(E2)
A-B-C-E	cont	C
	SGPS	AINEXT)B(NEXT)E(NEXT)
A-D	FN	D/PR) A/E3)
	SGPS	A. D A
B-C-D-E	FN	B/PR) D/NEXT)
	SGPS	B.C.D.E B
cont	FN	Z+D C/NEXT)D(NEXT)E(NEXT)
	SGPS	C/E1) D
B-C-D-E	cont	C
	FN	B/NEXT)D(NEXT)E(NEXT)
B-C-D-E	cont	E
	FN	B/NEXT)C(NEXT)E(NEXT)
B-C-E	FN	B/L) C/L) E/L)
	SGPS	B/C/E B/C/E
D	FN	D/L) D/E2)
	SGPS	D D
P1 (PB)	FN	A/PB) B/L)
	SGPS	A/P1(WALK) A/P1(WALK)
P2 (PB)	FN	C/PB) C/D
	SGPS	C/P2(WALK) C/P2(WALK)
DS	FN	-
	SGPS	B.D



- NOTES
1. This site is SCATS linked.
 2. Special Stop Signs (R1-4) placed on post 1.
 3. All pedestrian push buttons are audio tactile except post 6.
 4. The A detectors are separated into two sections. Each section provides a separate input into the controller. These separate inputs are programmed as approach and departure to provide a similar function to an 11m loop. The approach section is to be used for counting, the departure section behaves as if it were a conventional 4.5m loop due to the programming.
 5. Kerb ramps at all crossings in accordance with Standard (Road) drawing R0300-11.

POSTS	TYPE	LENGTH	OFFSET	REMARKS
1	2	4.1	0.6	EXISTING
2	11	-	2.0	EX (MA 12m)
3	3	-	0.6	EXISTING
4	2	4.1	0.7	EXISTING
5	1	3.0	0.5	EXISTING
6	2	4.1	-	EXISTING
7	2	4.1	0.8	EXISTING
8	2	3.2	0.6	EXISTING

POSTS

SIGNAL GROUP/PHASE CHART

SIGNAL GROUP	PHASES WHEN GREEN					REMARKS
	A	B	C	D	E	
V1	X					1
V2	X	X	C		X	5
V3		X	X		X	34
V4			X			1
V5				X		75
V6		X	X	X		10
P1	X					1
P2		X				1

A ORIGINAL ISSUE

HYDRAUNT

STOP VALVE

SEWER MANHOLE

COMMS PIT

ELECT LIGHT POLE

POWER POLE

STAY POLE

TELEPHONE BOX

COMMS PILLAR

STD POSN CLIP

INSTL STOP DET

VEH GROUP OP

DET LOGIC CP

PEDEST CP

SURVEYOR : FRANK M MASON

DATE : JUNE 2000

U.S.D. Rd

E. 285 829

CO-ORDS N: 12 51 540

DESIGNED : J. SMITH

CHECKED : M. KING

SITE CHECKED : B.L.O.

RECOMMENDED

APPROVED

DESIGN PREPARED BY

PLANNING ASSOCIATES

NAME

POSITION

DATE

NAME

POSITION

DATE

NAME

POSITION

DATE

NAME

POSITION

DATE

ROADS AND MARITIME SERVICES

NORTH SYDNEY COUNCIL AREA

TRAFFIC SIGNALS AT

PACIFIC HIGHWAY (HW 10)

AND HERBERT STREET

ST LEONARDS

EXISTING

PROPOSED

CADD FILE: VV0770_??

SCALE

5 0 10

1:200

5 10

FILE

ST0000/000000

REG No.

DS00000/000000

SHEETS

15/D

TCS No.

0770

SHEET

-

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