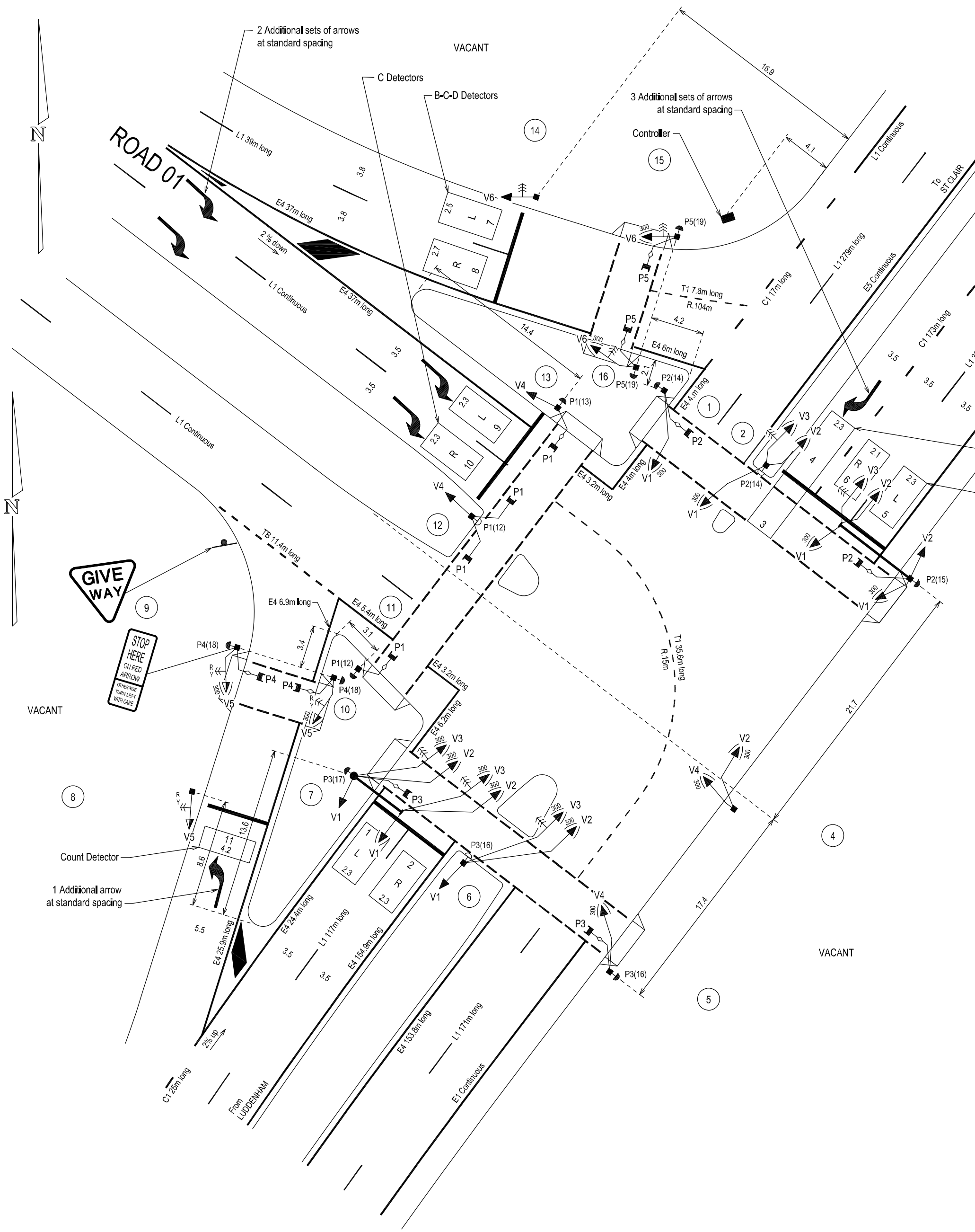
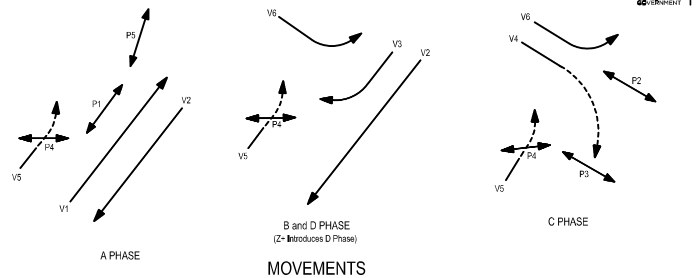
TCS 0000

DATE IN SERVICE : 00/00/0000

NSW GOVERNMENT | Transport for NSW



ROAD 01
2 Additional sets of arrows at standard spacing
C Detectors
B-C-D Detectors
VACANT
3 Additional sets of arrows at standard spacing
Controller
L1 39m long
E4 37m long
2% down
L1 Continuous
E4 37m long
T1 7.8m long R.104m
E4 6m long
C1 17m long
L1 279m long
E5 Continuous
C1 173m long
L1 303m long
E1 Continuous
1% down
To ST CLAIR
A-B-D1 Detector
A-B-D2 Detectors
GIVE WAY
STOP HERE ON RED ARROW
TB 11.4m long
E4 6.9m long
E4 5.4m long
E4 3.2m long
E4 4.4m long
E4 4.1m long
E4 3.2m long
E4 6.2m long
T1 35.6m long R.15m
Count Detector
1 Additional arrow at standard spacing
E4 24.4m long
L1 117m long
E4 154.9m long
E4 25.9m long
C1 25m long
2% up
From LUDDENHAM
E4 153.8m long
L1 171m long
E1 Continuous
VACANT



MOVEMENTS

POSTS

POST	TYPE	LENGTH	OFFSET	REMARKS
1	8	1.4	0.6	NEW
2	8	4.0	2.8	NEW
3	9	-	1.0	NEW (MA 7m outreach)
4	8	4.0	1.0	NEW
5	8	4.0	1.0	NEW
6	8	4.0	0.6	NEW
7	5L	-	2.0	NEW (MA 5m outreach)
8	8	4.0	1.0	NEW
9	8	4.0	1.0	NEW
10	8	4.0	1.0	NEW
11	8	4.0	1.0	NEW
12	8	4.0	1.0	NEW
13	8	4.0	1.0	NEW
14	8	4.0	1.0	NEW
15	8	4.0	1.0	NEW
14	8	4.0	1.0	NEW
15	8	4.0	1.0	NEW

NOTES

1. This site is SCATS linked.
2. Special STOP Sign (R1-4) placed on Posts 12, 13 and 14.
3. Audio tactile push buttons are located on Posts 1, 3, 5, 7, 9, 10, 11, 13, 15 and 16.
4. Kerb ramps to be constructed at all pedestrian crossings in accordance with Standard Road Drawing R.0300-11.
5. All surface utilities are currently under investigation. All utility services are to be confirmed prior to construction.
6. Supply to be determined and confirmed by an accredited Level 2/3 service provider, prior to construction and asset number to be shown on the Design Layout.
7. For associated Civil works refer to Drawing No. DS0000/000000 prepared by Enspire.
8. Red runner software added for detectors 1 - 11.

DETECTOR SPECIFICATION

Detector	Specifications				
A	FN	A(L)	A(E1)		
	SG/PS	$\overline{A}$	A		
	DS	—	—		
A-B-D	FN	A(L)	A(E1)	B(E1)	D(E1)
	SG/PS	$\overline{V2}$	A	B	D
	DS	$\overline{B}$.$\overline{D}$	$\overline{B(NEXT)}$.$\overline{D(NEXT)}$	$\overline{A(NEXT)}$.$\overline{D(NEXT)}$	$\overline{A(NEXT)}$.$\overline{B(NEXT)}$
B-C-D	FN	C(PR)	B(E1)		C(E1)
	SG/PS	$\overline{C}$	B		C
	DS	—	$\overline{B-C-D(PR)}$.$\overline{C(NEXT)}$.$\overline{D(NEXT)}$		—
cont. B-C-D	FN	D(E1)			
	SG/PS	D			
	DS	$\overline{B-C-D(PR)}$.$\overline{C(NEXT)}$.$\overline{D(NEXT)}$			
B-D	FN	B(L)	D(L)	B(E2)	D(E2)
	SG/PS	$\overline{V3}$	$\overline{V3}$	B	D
	DS	—	Z+	D(NEXT)	B(NEXT)
C	FN	C(L)	C(E3)		
	SG/PS	$\overline{C}$	C		
	DS	—	—		
P1 P.B.	FN	A(PB)	C(L)		
	SG/PS	$\overline{P1(WALK)}$	$\overline{A.P1(WALK)}$		
	DS	–	$\overline{B}$.$\overline{C}$.$\overline{D}$		
P2 P.B.	FN	C(PB)	A(L)		
	SG/PS	$\overline{P2(WALK)}$	$\overline{C.P2(WALK)}$		
	DS	–	$\overline{A}$.$\overline{B}$.$\overline{D}$		
P3 P.B.	FN	C(PB)	A(L)		
	SG/PS	$\overline{P2(WALK)}$	$\overline{C.P2(WALK)}$		
	DS	–	$\overline{A}$.$\overline{B}$.$\overline{D}$		
P5 P.B.	FN	C(PB)	A(L)		
	SG/PS	$\overline{P5(WALK)}$	$\overline{C.P5(WALK)}$		
	DS	–	$\overline{A}$.$\overline{B}$.$\overline{D}$		

SIGNAL GROUP PHASE CHART

SIGNAL GROUP	PHASE GREEN A	B	C	D	TABLE TYPE	REMARKS
V1	X				1	
V2	X	X		X	3	
V3		X		X	66	Timed Red Arrow protection for P1 pedestrians PB on Post 13 extends Red Arrow protection for P1 pedestrians
V4			X		3	Full Red protection for P3 pedestrians
V5					96	Independent sliplane
V6		X	X	X	93	
P1	X				1	Automatic introduction subject to XSF 1
P2			X		1	Automatic introduction subject to XSF 2
P3			X		1	Automatic introduction subject to XSF 3
P4	X	X	X	X	35	Independent sliplane pedestrian movement
P5	X				1	Automatic introduction subject to XSF 4

A ORIGINAL ISSUE

PUBLIC UTILITY LEGEND	
HYDRANT	□
STOP VALVE	▲
GAS VALVE	#
SEWER MANHOLE	⊗
COMMS PIT	◪
ELECT LIGHT POLE	♂
POWER POLE	○
STAY POLE	⊘
TELEPHONE BOX	T
COMMS PILLAR	◕

REFERENCE PLANS	
SYMBOLS/ABRVS	VD003-6
STD POSN CMPT	VD001-5
INSTL STOP DET	VC005-17
VEH GROUP OP	TS-TN-019
DET LOGIC OP	TS-TN-020
PED MVT OP	TS-TN-021
SURVEYOR : Enspire	
DATE : 2022	

U.B.D. Ref. Map
I.S.G. CO-ORDS E: 275 666 N: 1 253 627
DESIGNED : GLEN VARLEY Road Delay Solutions P/L
CHECKED : Shawn Hotong Enspire
SITE CHECKED
SHAWN HOTONG
RECOMMENDED

DESIGN APPROVAL
APPROVED
NAME GLEN VARLEY
POSITION DIRECTOR
DATE 20.03.2023
DESIGN PREPARED BY
ROAD DELAY SOLUTIONS Pty Ltd
9/81-83 OCEAN BEACH ROAD WOY WOY NSW 2256
Mobile 0414 800 912 Email gvarley@bigpond.com

TFNSW RECOMMENDATION
ROAD DESIGN ENGINEERING
NAME
POSITION
DATE
NETWORK OPERATIONS
NAME
POSITION
DATE

TFNSW ACCEPTANCE
ACCEPTED
NAME
POSITION
DATE
ACCEPTED BY
SECTION

TRANSPORT FOR NEW SOUTH WALES

PENRITH COUNCIL AREA TRAFFIC SIGNALS AT LUDDENHAM ROAD AND SIDE STREET SYDNEY SCIENCE PARK

DESIGN LAYOUT

EXISTING ☐ PROPOSED ☒
CADD FILE: VV0000_1A_DES.dgn
SCALE (1:200) 5 0 5 10
ISSUE A
FILE SF2000/0000000
SUPERSEDES SHEET/ISSUE -
REG No. DS2000/000000
TCS No. 0000
SHEET 1

Revision 7 - August 2021