Attachment B

Concept Design

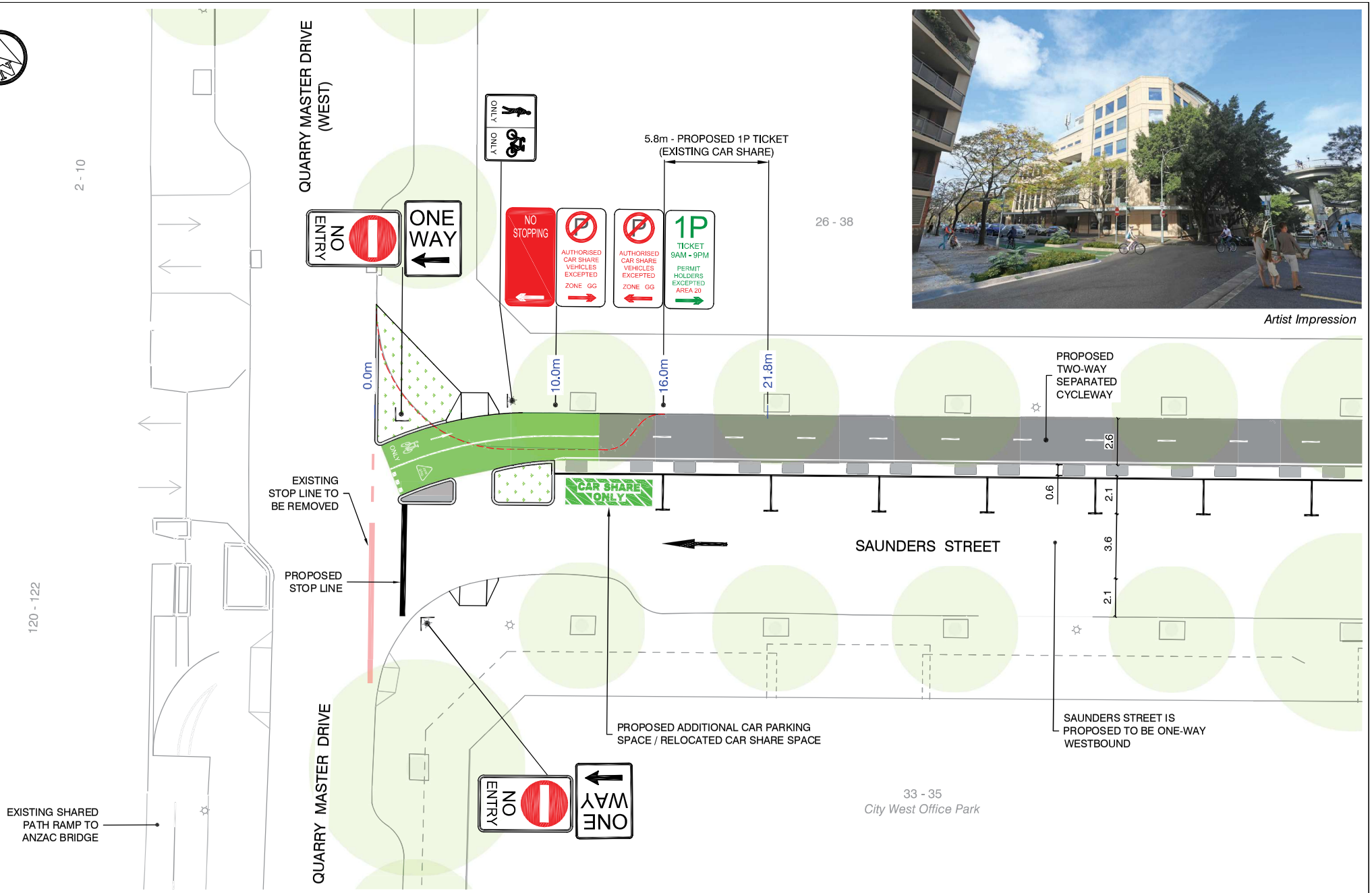
Saunders and Miller Streets, Pyrmont

Walking and cycling improvements

01

1. LOCATION PLAN
2. GENERAL ARRANGEMENT 1
3. GENERAL ARRANGEMENT 2
4. GENERAL ARRANGEMENT 3
5. GENERAL ARRANGEMENT 4
6. GENERAL ARRANGEMENT 5
7. GENERAL ARRANGEMENT 6
8. GENERAL ARRANGEMENT 7
9. GENERAL ARRANGEMENT 8
10. TYPICAL CROSS SECTIONS
11. PARKING CHANGES

Artist Impression



CONTINUES ON GENERAL ARRANGEMENT 2

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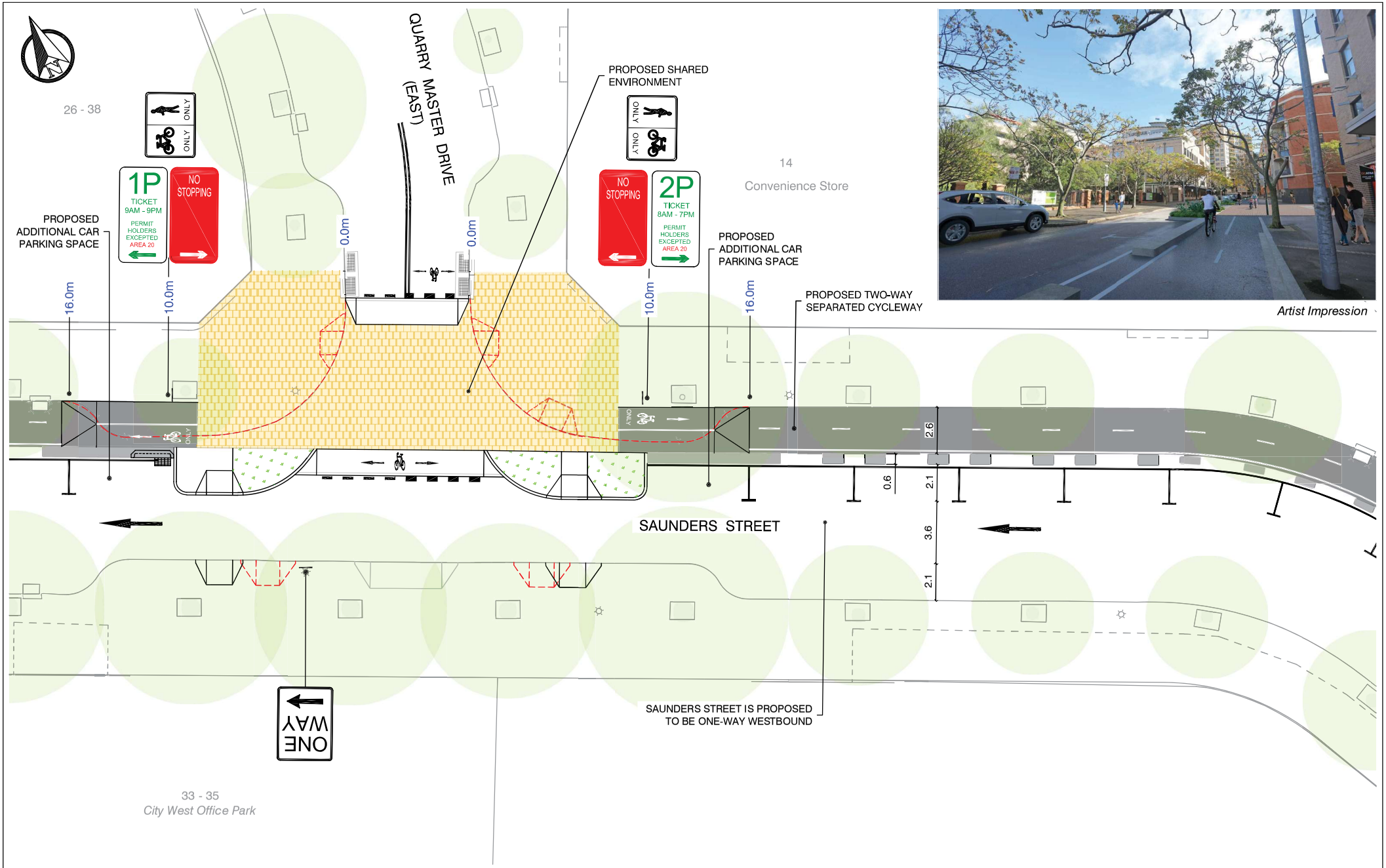
1:200

					Project: SAUNDERS & MILLER STREETS PYRMONT			CITY OF SYDNEY	
					Drawing Title: WALKING & CYCLING IMPROVEMENTS GENERAL ARRANGEMENT 1			PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	Issue 1
								CAMS Job No. 10317983	
29.10.2019	1	JM	Issued for LPCTCC	JN	Designed: JM	Checked: JN	SCALE: 1:200	PAPER: A3	Drawing No. E3-18/1576	Sheet No. 2 OF 11
Date	No.	By	Amendments	Chckd	Drawn: JM	Approved: JN				



Artist Impression

CONTINUES ON GENERAL ARRANGEMENT 1

CONTINUES ON GENERAL ARRANGEMENT 3

GRAPHIC SCALE
IN METRES
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1:200

Date	No.	By	Amendments	Chckd
29.10.2019	1	JM	Issued for LPCTCC	JN

Project: SAUNDERS & MILLER STREETS PYRMONT

Drawing Title: WALKING & CYCLING IMPROVEMENTS GENERAL ARRANGEMENT 2

Designed: JM | Checked: JN | Drawn: JM | Approved: JN

SCALE: 1:200

PAPER: A3

CITY OF SYDNEY

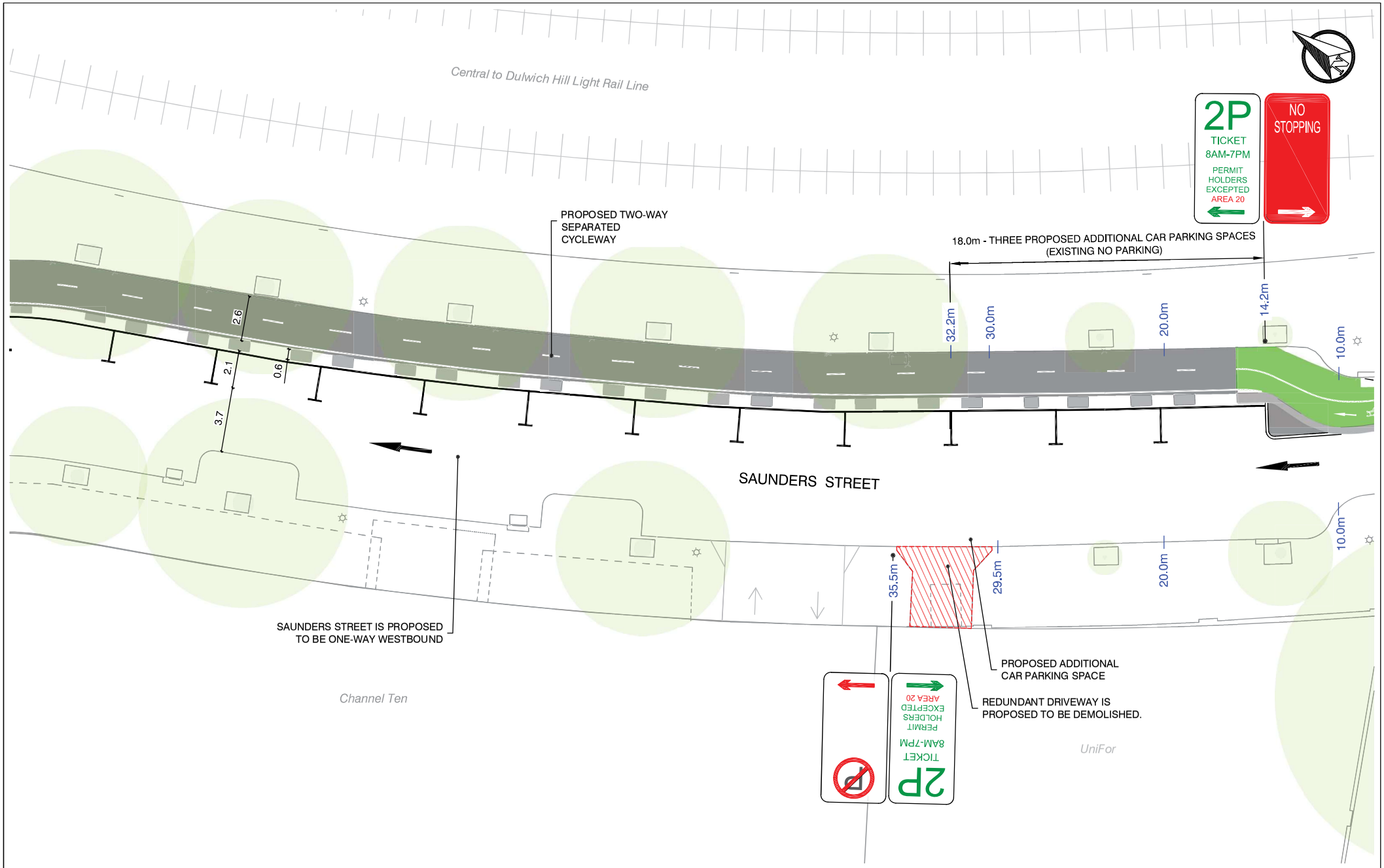
PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

Issue: 1

CAMS Job No.: 10317983

Drawing No.: E3-18/1576

Sheet No.: 3 OF 11



CONTINUES ON GENERAL ARRANGEMENT 2

CONTINUES ON GENERAL ARRANGEMENT 4

GRAPHIC SCALE
IN METRES
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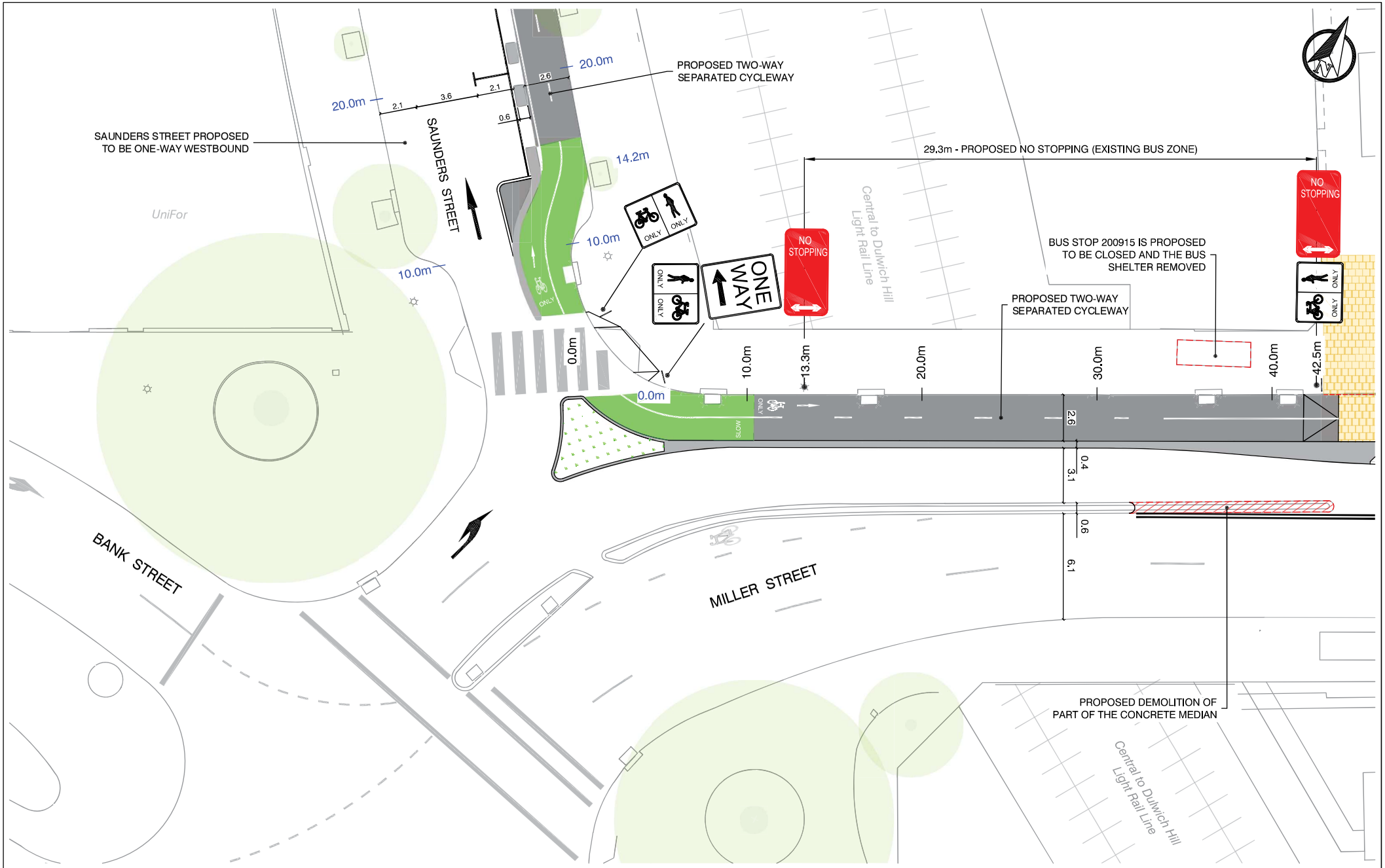
1:200

					Project: SAUNDERS & MILLER STREETS PYRMONT			CITY OF SYDNEY	
					Drawing Title: WALKING & CYCLING IMPROVEMENTS GENERAL ARRANGEMENT 3			PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	Issue 1
								CAMS Job No. 10317983	
29.10.2019	1	JM	Issued for LPCTCC	JN	Designed: JM	Checked: JN	SCALE: 1:200	PAPER: A3	Drawing No. E3-18/1576 / Sheet No. 4 OF 11
Date	No.	By	Amendments	Chckd	Drawn: JM	Approved: JN			

CONTINUES ON GENERAL ARRANGEMENT 3



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					Drawing Title: WALKING & CYCLING IMPROVEMENTS GENERAL ARRANGEMENT 4			PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	Issue 1
								CAMS Job No. 10317983	
29.10.2019	1	JM	Issued for LPCTCC	JN	Designed: JM	Checked: JN	SCALE: 1:200	PAPER: A3	Drawing No. E3-18/1576	Sheet No. 5 OF 11
Date	No.	By	Amendments	Chckd	Drawn: JM	Approved: JN				

CONTINUES ON GENERAL ARRANGEMENT 5

JONES STREET

102
The Palladium

PROPOSED SHARED ENVIRONMENT

37.1m - PROPOSED NO STOPPING (EXISTING 2P TICKET, AREA 20 PERMITS EXCEPTED - 6 SPACES)

9.5m - PROPOSED NO STOPPING (EXISTING CAR SHARE - 2 SPACES)

NO STOPPING

ONLY

ONLY

PROPOSED TWO-WAY SEPARATED CYCLEWAY

PROPOSED MARKED PEDESTRIAN CROSSING

0.0m
10.0m
18.5m
20.0m
30.0m
40.0m
50.0m
55.6m
60.0m
65.1m

3.0
1.0
3.3
3.3
2.2

MILLER STREET

MILLER LANE

0.0m
5.2m
6.6m
9.8m
10.0m
12.6m
16.4m

PROPOSED FOOTPATH WIDENING

6.0m - PROPOSED NO STOPPING (EXISTING CAR SHARE - 1 SPACE)

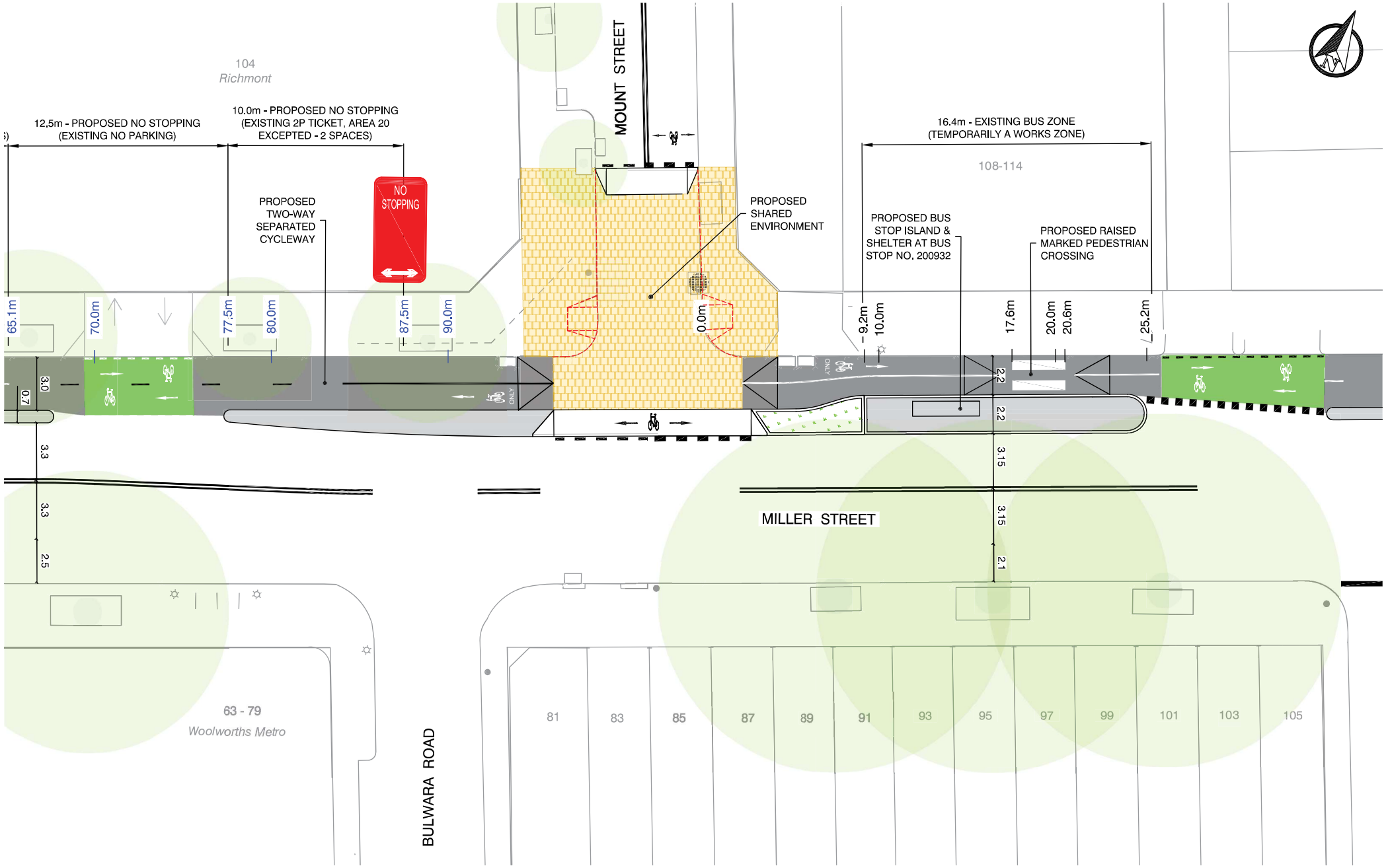
Artist Impression

GRAPHIC SCALE
IN METRES
2.50 0 2.50 5.00 10.00
1:200

CONTINUES ON GENERAL ARRANGEMENT 4

CONTINUES ON GENERAL ARRANGEMENT 6

						Project: SAUNDERS & MILLER STREETS PYRMONT			CITY OF SYDNEY
						Drawing Title: WALKING & CYCLING IMPROVEMENTS GENERAL ARRANGEMENT 5			PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION — Issue 1
									CAMS Job No. 10317983
29.10.2019	1	JM	Issued for LPCTCC	JN	Designed: JM	Checked: JN	SCALE: 1:200	PAPER: A3	Drawing No. E3-18/1576 — Sheet No. 6 OF 11
Date	No.	By	Amendments	Chckd	Drawn: JM	Approved: JN			



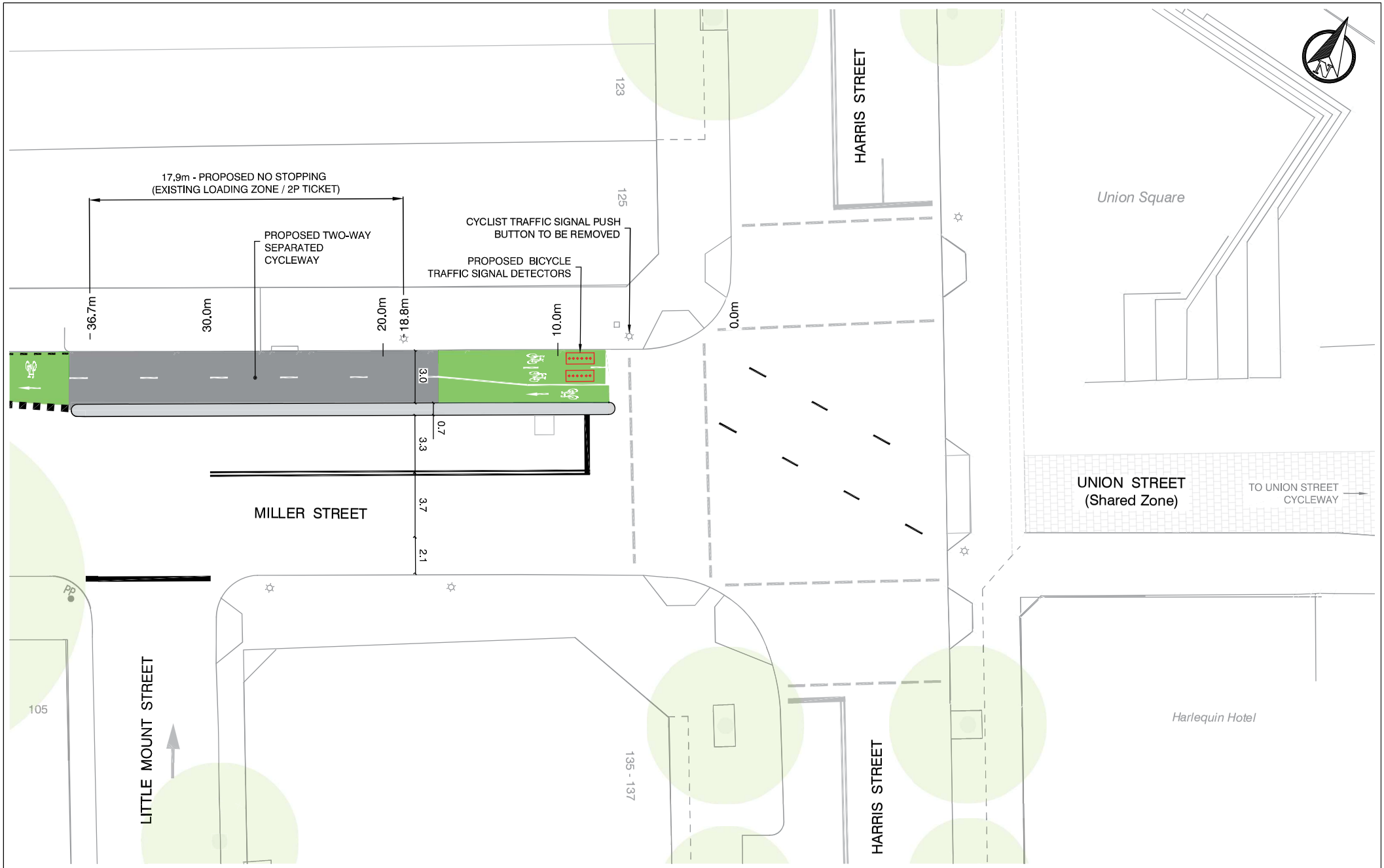
CONTINUES ON GENERAL ARRANGEMENT 5

CONTINUES ON GENERAL ARRANGEMENT PLAN 7

						Project: SAUNDERS & MILLER STREETS PYRMONT		CITY OF SYDNEY	
						Drawing Title: WALKING & CYCLING IMPROVEMENTS GENERAL ARRANGEMENT 6		PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	Issue 1
								CAMS Job No. 10317983	
29.10.2019	1	JM	Issued for LPCTCC	JN	Designed: JM	Checked: JN	SCALE: 1:200	PAPER: A3	Drawing No. E3-18/1576	Sheet No. 7 OF 11
Date	No.	By	Amendments	Chckd	Drawn: JM	Approved: JN				

CONTINUES ON GENERAL ARRANGEMENT 8

CONTINUES ON GENERAL ARRANGEMENT 6



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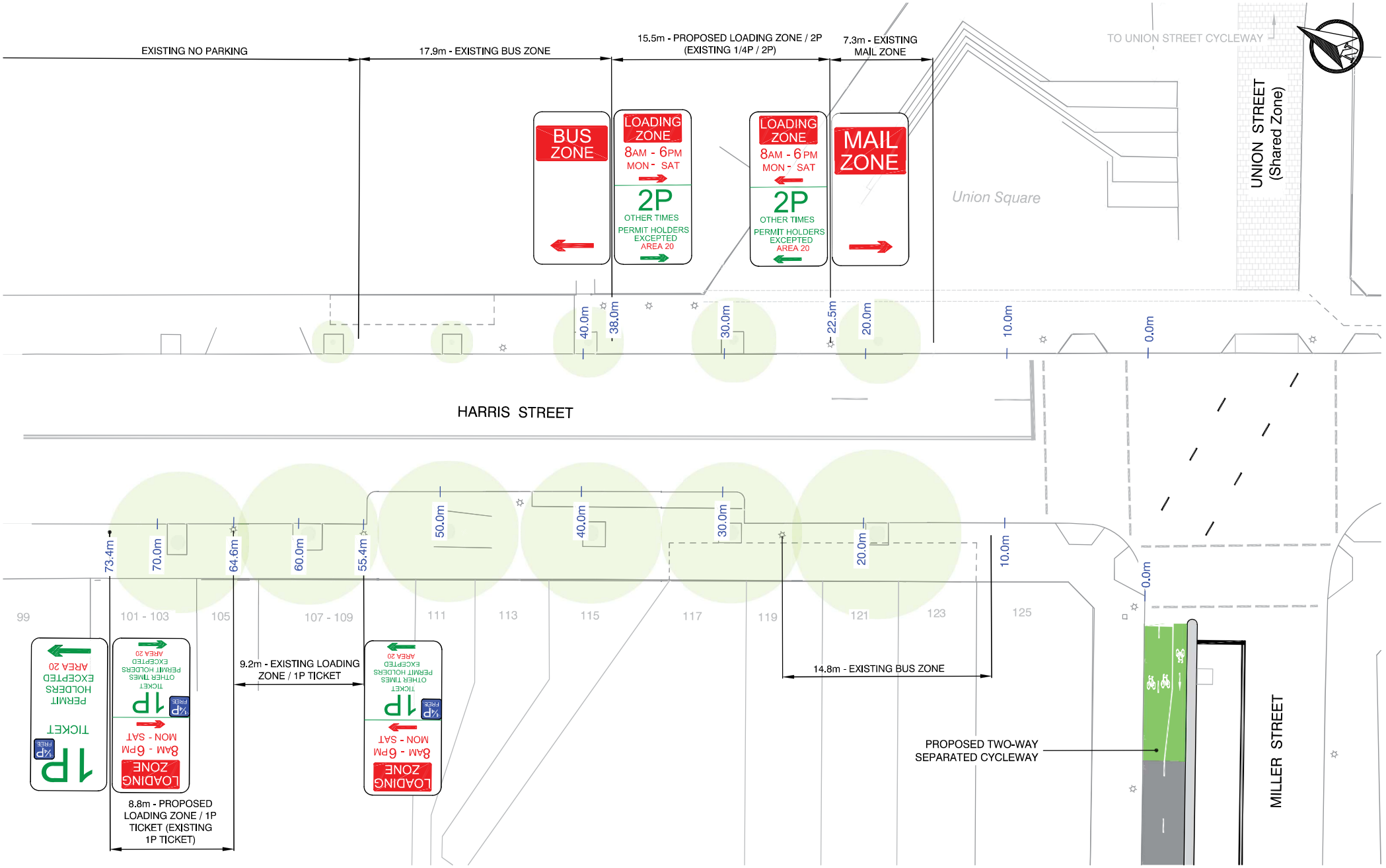
					Drawing Title: WALKING & CYCLING IMPROVEMENTS CONCEPT PLAN 7				PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	Issue 1
									CAMS Job No. 10317983	
29.10.2019	1	JM	Issued for LPCTCC	JN	Designed: JM	Checked: JN	SCALE: 1:200	PAPER: A3	Drawing No. E3-18/1576	Sheet No. 8 OF 11
Date	No.	By	Amendments	Chckd	Drawn: JM	Approved: JN				



GRAPHIC SCALE
IN METRES
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1:250

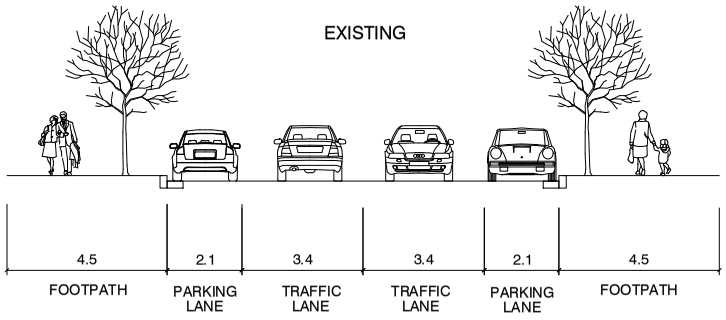
						Project: SAUNDERS & MILLER STREETS PYRMONT			CITY OF SYDNEY	
						Drawing Title: WALKING & CYCLING IMPROVEMENTS GENERAL ARRANGMENT 8			PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	Issue 1
									CAMS Job No. 10317983	
29.10.2019	1	JM	Issued for LPCTCC	JN	Designed: JM	Checked: JN	SCALE: 1:250	PAPER: A3	Drawing No. E3-18/1576	Sheet No. 9 OF 11
Date	No.	By	Amendments	Chckd	Drawn: JM	Approved: JN				

TYPICAL CROSS SECTIONS

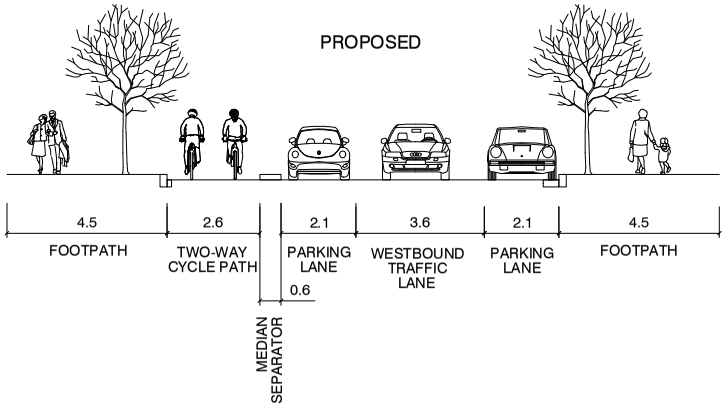
SAUNDERS STREET

11.0 m WIDE KERB TO KERB
20.0 m WIDE ROAD RESERVE

EXISTING



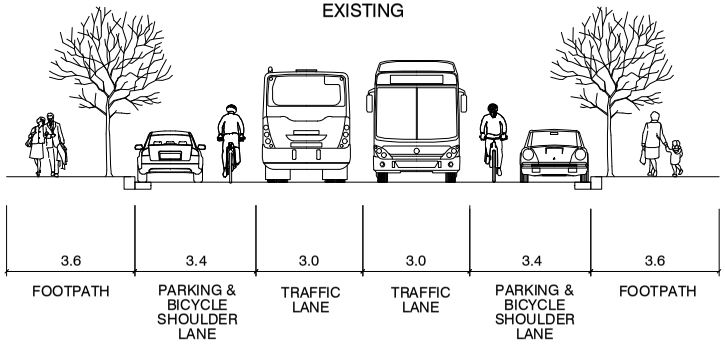
PROPOSED



MILLER STREET

12.8 m WIDE KERB TO KERB
20.0 m WIDE ROAD RESERVE

EXISTING



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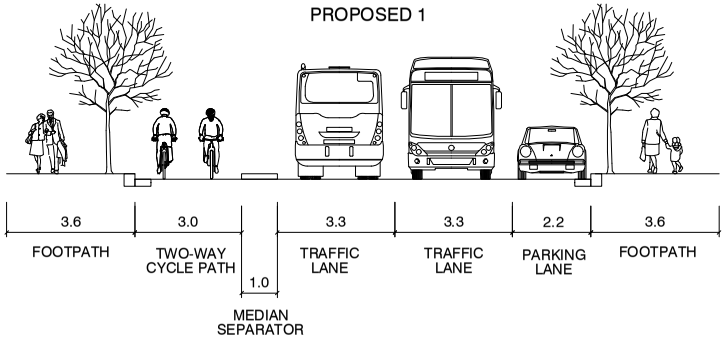
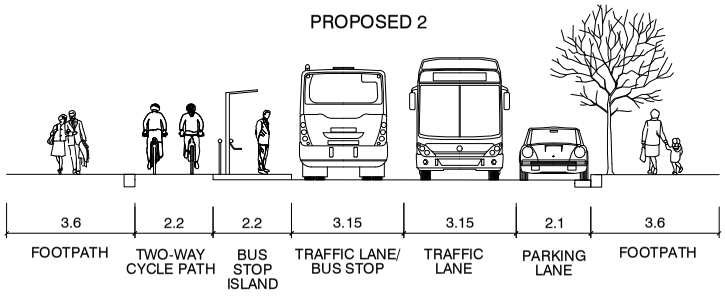


PROPOSED 2



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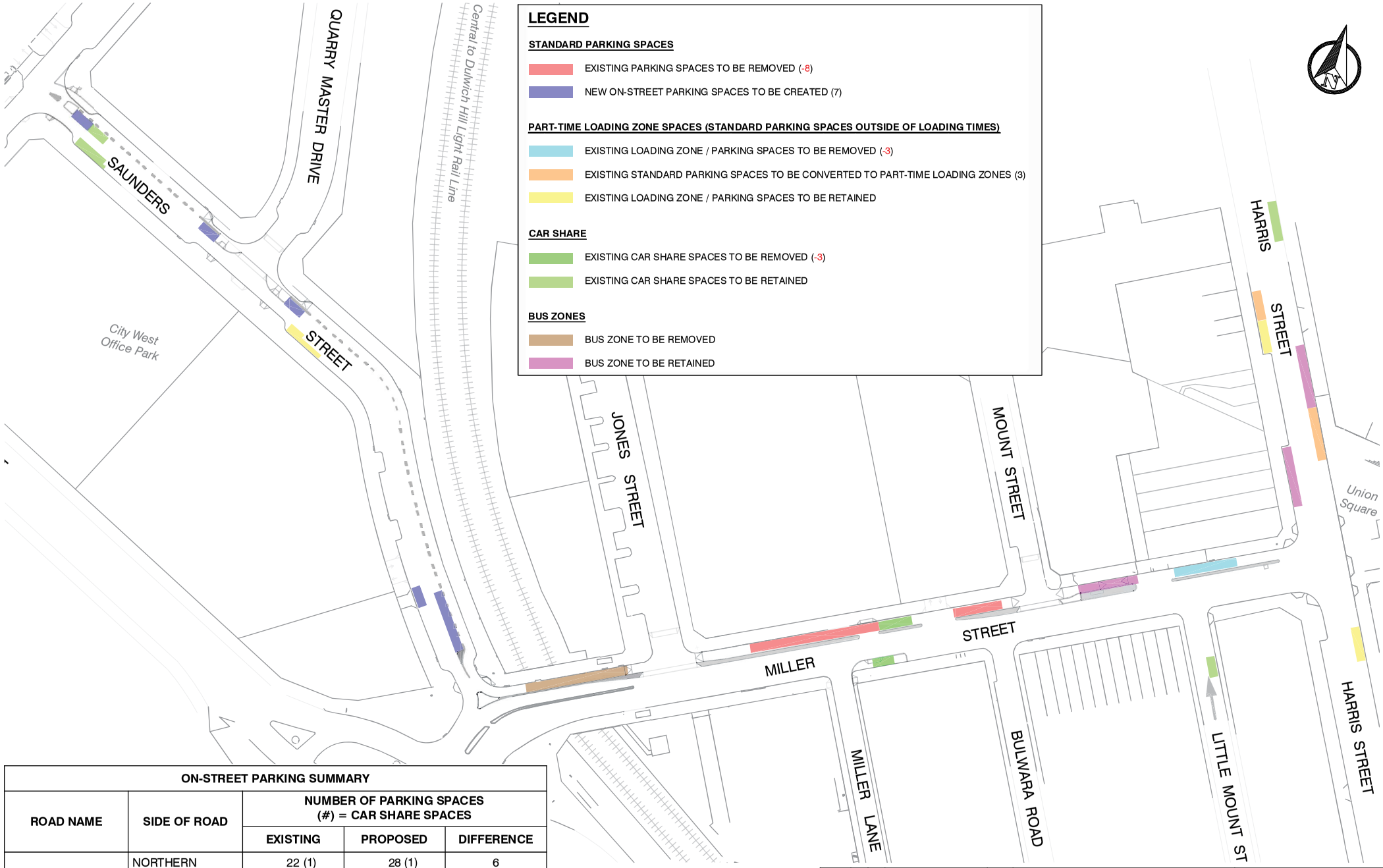
					Drawing Title: WALKING & CYCLING IMPROVEMENTS TYPICAL CROSS SECTIONS			PRELIMINARY ONLY NOT TO BE USED FOR CONSTRUCTION	Issue 1
								CAMS Job No. 10317983	
29.10.2019	1	JM	Issued for LPCTCC	JN	Designed: JM	Checked: JN	SCALE: 1:100	PAPER: A3	Drawing No. E3-18/1576
Date	No.	By	Amendments	Chckd	Drawn: JM	Approved: JN			Sheet No. 10 OF 11



ON-STREET PARKING SUMMARY				
ROAD NAME	SIDE OF ROAD	NUMBER OF PARKING SPACES (#) = CAR SHARE SPACES		
		EXISTING	PROPOSED	DIFFERENCE
SAUNDERS STREET	NORTHERN	22 (1)	28 (1)	6
	SOUTHERN	19 (2)	20 (2)	1
MILLER STREET	NORTHERN	13 (2)	0	-13 (-2)
	SOUTHERN	19 (1)	18	-1 (-1)
	TOTAL	73 (6)	66 (3)	-7 (-3)

GRAPHIC SCALE
IN METRES
12.50 0 12.50 25.00 50.00
1:1000

Date	No.	By	Amendments	Chckd	Drawn: JM	Approved: JN	SCALE: 1:1000	PAPER: A3
29.10.2019	1	JM	Issued for LPCTCC	JN	Designed: JM	Checked: JN		

Project: SAUNDERS & MILLER STREETS PYRMONT
Drawing Title: WALKING & CYCLING IMPROVEMENTS PARKING CHANGES

CITY OF SYDNEY

PRELIMINARY ONLY
NOT TO BE USED FOR CONSTRUCTION

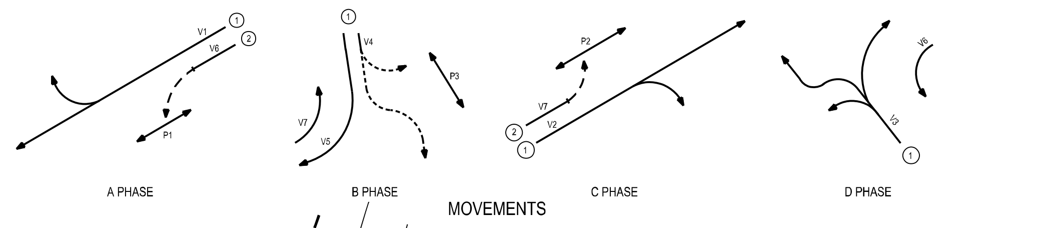
Issue: 1
CAMS Job No.: 10317983
Drawing No.: E3-18/1576
Sheet No.: 11 OF 11

TCS 3230

DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 10/11/1996

NSW GOVERNMENT | Transport Roads & Maritime Services

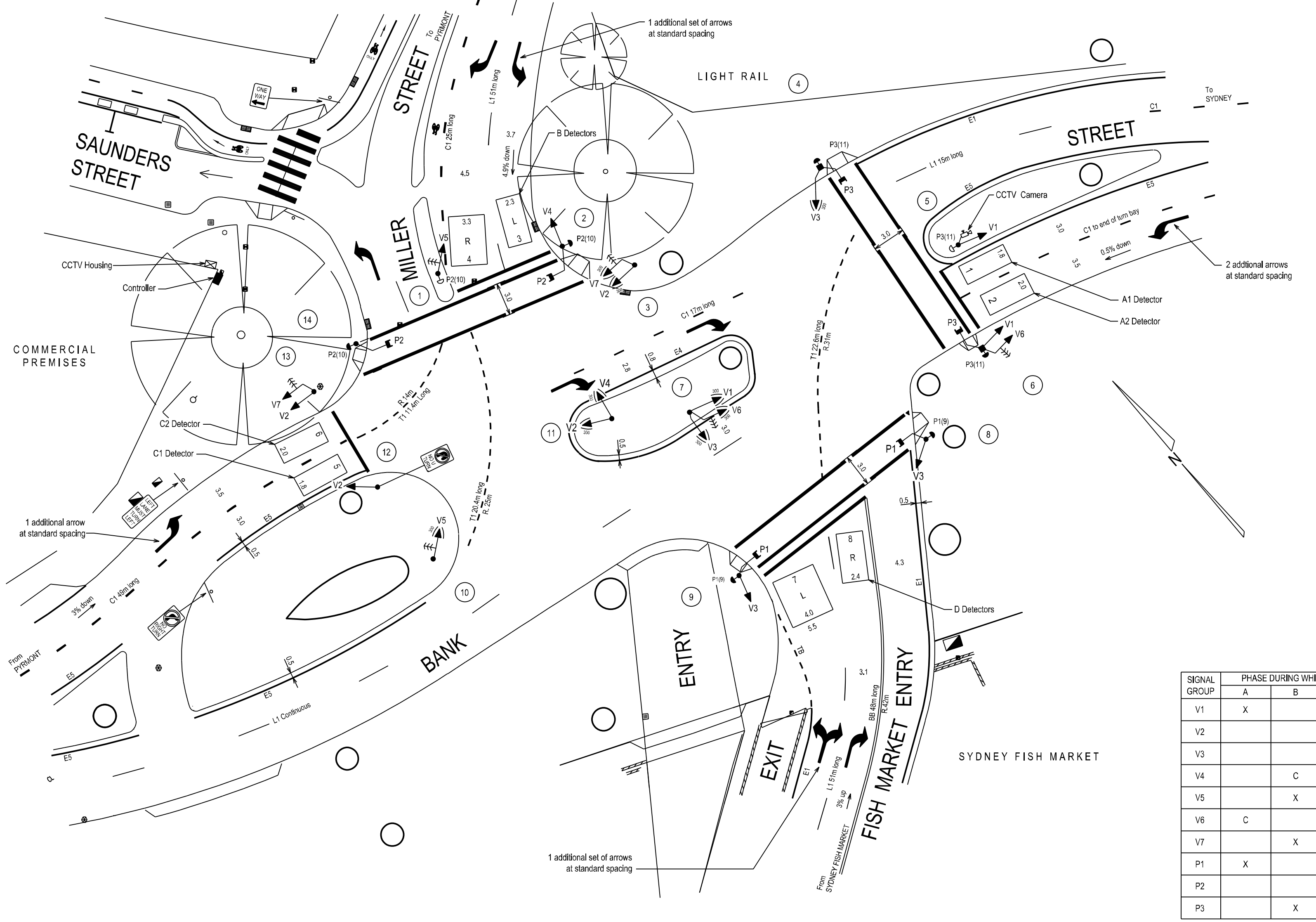


NOTES

1. This site is SCATS linked.
2. Special STOP signs (R1-4) placed on posts 1, 2 and 9.
3. Audio tactile push buttons are provided on posts 2, 4, 6, 8, 9 and 14.
4. For civil construction details of see drawing No. E3-18/1576 prepared by City of Sydney.
5. CCTV camera provided on Post 5.
6. Trees on approaches to the intersection are to be regularly inspected and trimmed by Council to minimise lantern obstruction.

POSTS

POST	TYPE	LENGTH	OFFSET	REMARKS
1	2	4.1	-	Existing
2	2	4.1	1.0	Existing
3	2	4.1	2.2	Existing
4	6	-	1.0	Existing
5	2	4.1	0.8	Existing
6	6	4.1	1.5	Existing
7	2	4.1	1.0	Existing
8	2	4.1	1.0	Existing
9	2	4.1	1.3	Existing
10	2	4.1	1.9	Existing
11	2	4.1	1.8	Existing
12	2	4.1	1.2	Existing
13	2	4.1	1.9	Existing
14	2	4.1	1.0	Existing



DETECTOR SPECIFICATION

Detector		Specifications		
A1	FN	A(L)	A(E1)	
	SG/PS	$\bar{A}$	A	
	DS	—	—	
A2	FN	A(PR)	A(E2)	
	SG/PS	$\bar{A}$	A	
	DS	—	—	
B	FN	B(L)	B(E1)	
	SG/PS	$\bar{B}$	B	
	DS	—	—	
C1	FN	C(L)	C(E1)	
	SG/PS	$\bar{C}$	C	
	DS	—	—	
C2	FN	C(PR)	C(E2)	
	SG/PS	$\bar{C}$	C	
	DS	—	—	
D	FN	D(L)	D(E1)	
	SG/PS	$\bar{D}$	D	
	DS	—	—	
P1 P.B.	FN	A(PB)	D(L)	
	SG/PS	P1(WALK)	A,P1(WALK)	
	DS	—	$\bar{B},\bar{C},\bar{D}$	
P2 P.B.	FN	C(PB)	A(L)	
	SG/PS	P2(WALK)	C,P2(WALK)	
	DS	—	$\bar{A},\bar{B},\bar{D}$	
P3 P.B.	FN	B(PB)	A(L)	
	SG/PS	P3(WALK)	B,P3(WALK)	
	DS	—	$\bar{A},\bar{C},\bar{D}$	

SIGNAL GROUP PHASE CHART

SIGNAL GROUP	PHASE DURING WHICH GREEN DISPLAYED A	B	C	D	TABLE	REMARKS
V1	X				1	
V2			X		1	
V3				X	1	
V4		C			74	Red for walk and part clearance (special timer) if P3 demanded.
V5		X			2	
V6	C			X	25	Timed Red Arrow protection for P1 pedestrians
V7		X	C		25	Timed Red Arrow protection for P2 pedestrians
P1	X				2	Auto introduction of P1 pedestrians subject to XSF 1
P2			X		2	Auto introduction of P2 pedestrians subject to XSF 2
P3		X			1	Auto introduction of P3 pedestrians subject to XSF 3

A ORIGINAL ISSUE

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

REFERENCE PLANS	
SYMBOLS/ABRVS	VC003-6
STD POSN CMPT	VC001-5
INSTL STOP DET	VC005-17
VEH GROUP OP	TS-TN-019
DET LOGIC OP	TS-TN-020
PED MVT OP	TS-TN-021
SURVEYOR : Linker	
DATE : 2017	

U.B.D. Ref. Map 12 M3
I.S.G. CO-ORDS E: 317 834 N: 1 250 804
DESIGNED: G VARLEY Road Delay Solutions P/L
CHECKED: Justin Murphy City of Sydney
SITE CHECKED
JUSTIN MURPHY
RECOMMENDED

DESIGN APPROVAL
APPROVED
NAME GLEN VARLEY
POSITION DIRECTOR
DATE 23/07/2019
ROAD DELAY SOLUTIONS
ROAD DELAY SOLUTIONS Pty Ltd

RMS RECOMMENDATION
ROAD DESIGN ENGINEERING
NAME PHILLIP QUIGG
POSITION TRAFFIC SIGNAL DESIGN MANAGER
DATE 06/08/2019
NETWORK OPERATIONS
NAME HARRY CAMPARA
POSITION AREA LEADER NETWORK OPERATIONS
DATE 15/08/2019

RMS ACCEPTANCE
ACCEPTED
NAME NICOLAS KOCOSKI
POSITION SENIOR MANAGER NETWORK & SAFETY
DATE 22/08/2019
ACCEPTED BY
NETWORK & SAFETY SERVICES
SE / PRECINCT
SECTION

ROADS AND MARITIME SERVICES
SYDNEY COUNCIL AREA
TRAFFIC SIGNALS AT
BANK STREET,
MILLER STREET AND FISH MARKET ENTRY
PYRMONT
DESIGN LAYOUT

EXISTING ☐ PROPOSED ☒
CADD FILE: VV3230_4A.dgn
SCALE (1:200)
ISSUE A
FILE SF2014/012716
SUPERSEDES SHEET/ISSUE 1/H
REG No. DS2014/003618
TCS No. 3230
SHEET 4

Revision 6 - July 2017

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TCS 0122

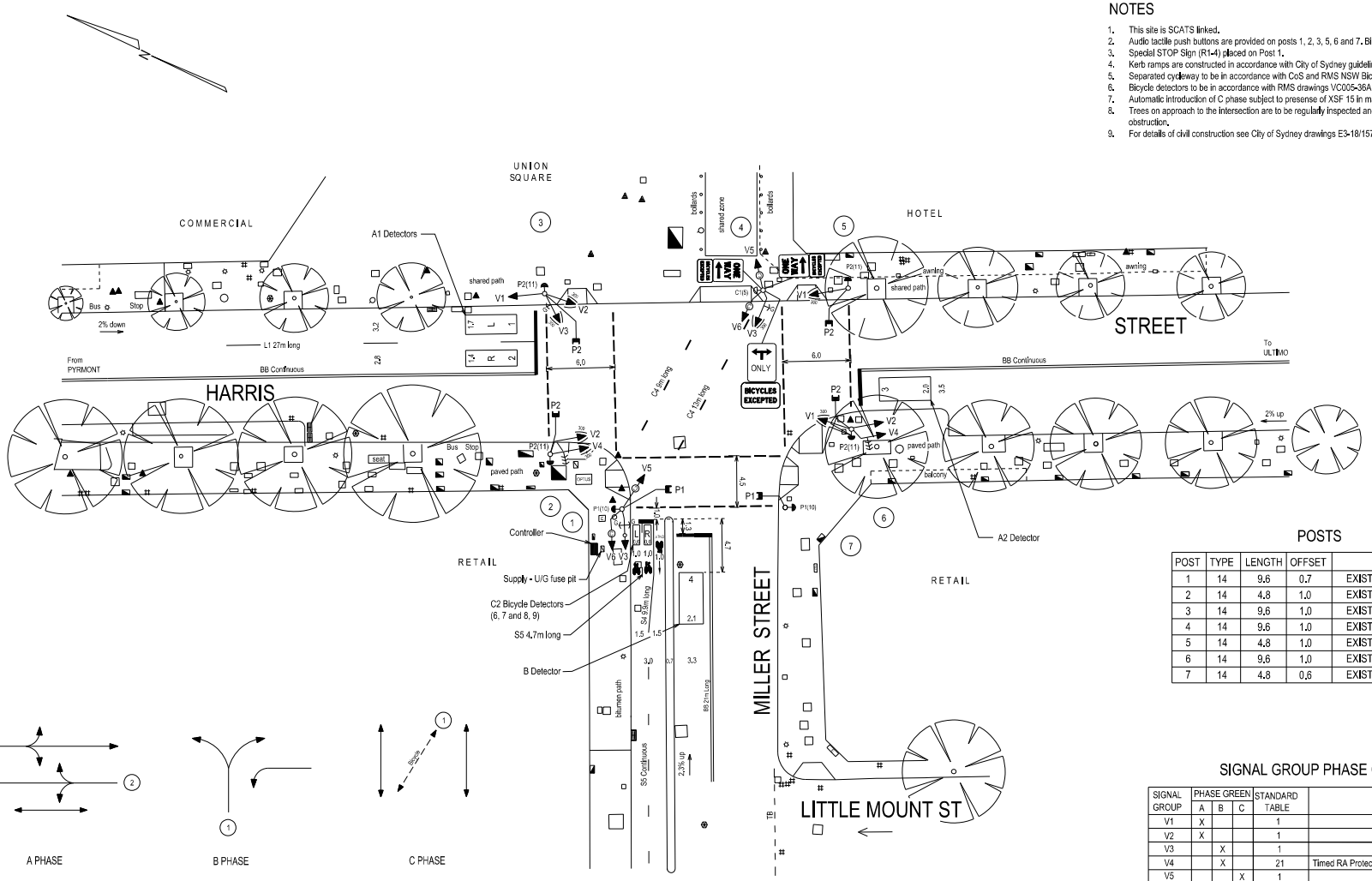
DRAWN BY CADD
DO NOT AMEND MANUALLY

DATE IN SERVICE : 21/05/1955

NSW GOVERNMENT | Transport Roads & Maritime Services

NOTES

1. This site is SCATS linked.
2. Audio tactile push buttons are provided on posts 1, 2, 3, 5, 6 and 7. Bicycle push button provided on Post 4.
3. Special STOP Sign (R1-4) placed on Post 1.
4. Kerb ramps are constructed in accordance with City of Sydney guidelines.
5. Separated cycleway to be in accordance with CoS and RMS NSW Bicycle Guidelines.
6. Bicycle detectors to be in accordance with RMS drawings VC005-36A and VC005-38A..
7. Automatic introduction of C phase subject to presense of XSF 15 in master/flexilink.
8. Trees on approach to the intersection are to be regularly inspected and trimmed by Councilto minimise lantern obstruction.
9. For details of civil construction see City of Sydney drawings E3-18/1576.



MOVEMENTS

POSTS

POST	TYPE	LENGTH	OFFSET	REMARKS
1	14	9.6	0.7	EXIST CoS Type S1B - 380kg
2	14	4.8	1.0	EXIST CoS Type S1B - 280kg
3	14	9.6	1.0	EXIST CoS Type S1B - 380kg
4	14	9.6	1.0	EXIST CoS Type S1B - 380kg
5	14	4.8	1.0	EXIST CoS Type S1B - 280kg
6	14	9.6	1.0	EXIST CoS Type S1B - 380kg
7	14	4.8	0.6	EXIST CoS Type S1B - 280kg

SIGNAL GROUP PHASE CHART

SIGNAL GROUP	PHASE GREEN A	B	C	STANDARD TABLE	REMARKS
V1	X			1	
V2	X			1	
V3		X		1	
V4		X		21	Timed RA Protection for P1 Ped
V5			X	1	
V6			X	1	
P1	X			2	Automatic introduction of P1 ped subject to presence of XSF1
P2			X	20	Automatic Introduction

A ORIGINAL ISSUE

PUBLIC UTILITY LEGEND		REFERENCE PLANS	
HYDRANT		SYMBOLS/ABRVS	VD003-6
STOP VALVE		STD POSN CMPT	VD001-5
GAS VALVE		INSTL STOP DET	VC005-17
SEWER MANHOLE		VEH GROUP OP	TS-TN-019
COMMS PIT		DET LOGIC OP	TS-TN-020
ELECT LIGHT POLE		PED MVT OP	TS-TN-021
POWER POLE			
STAY POLE			
TELEPHONE BOX		SURVEYOR : Linker	
COMMS PILLAR		DATE : 2017	

U.S.D. Ref. Map 12 M3
I.S.G. E : 317 834
CO-ORDS N : 1 250 804
DESIGNED : G VARLEY Road Delay Solutions Pt.
CHECKED : Justin Murphy City of Sydney
SITE CHECKED
JUSTIN MURPHY
RECOMMENDED

DESIGN APPROVAL
APPROVED
NAME GLEN VARLEY
POSITION DIRECTOR
DATE 23/07/2019
ROAD DELAY SOLUTIONS
ROAD DELAY SOLUTIONS Pty Ltd
P.O. Box 1040 MACPHERSON STREET
MARRIPWOOD NSW 2021 AUSTRALIA
M 0414 803 972 E gvarley@bigpond.com

RMS RECOMMENDATION
ROAD DESIGN ENGINEERING
P. QUIGG
NAME PHILLIP QUIGG
POSITION TRAFFIC SIGNAL DESIGN MANAGER
DATE 05/08/2019
NETWORK OPERATIONS
N. CAMPARA
NAME HARRY CAMPARA
POSITION AREA LEADER NETWORK OPERATIONS
DATE 15/08/2019

RMS ACCEPTANCE
ACCEPTED
N. KOCOSKI
NAME NICOLAS KOCOSKI
POSITION SENIOR MANAGER NETWORK & SAFETY
DATE 22/08/2019
ACCEPTED BY
NETWORK & SAFETY SERVICES
SE / PRECINCT
SECTION

ROADS AND MARITIME SERVICES
SYDNEY COUNCIL AREA
TRAFFIC SIGNALS AT
HARRIS STREET
AND MILLER STREET
PYRMONT
DESIGN LAYOUT

EXISTING ☐ PROPOSED ☒
CADD FILE: VV0122_18A.dgn
SCALE 5 0 (1:200) 5 10
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