

PROJECT: PRESIDENT PRIVATE HOSPITAL

PLANSET: PRELIMINARY FLOOD ASSESSMENT

CLIENT: MACQUARIE HEALTH CORPORATION



LOCALITY PLAN
NOT TO SCALE


LGA: SUTHERLAND SHIRE COUNCIL

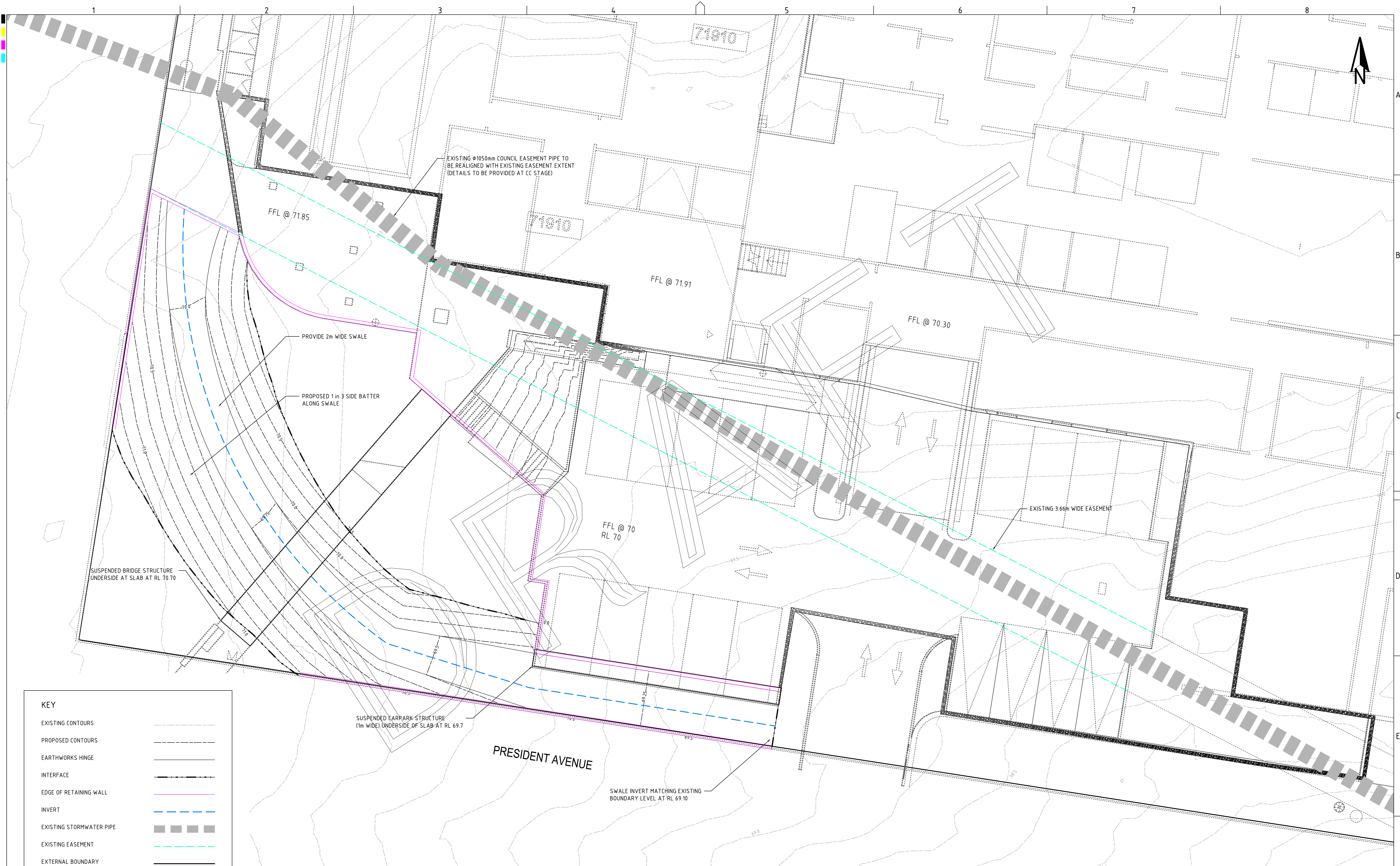
369-381 PRESIDENT AVE, 61-65 HOTHAM RD &
2-4 BIDURGAL AVE, KIRRAWEE, NSW

LOT 1 DP 841502,
LOTS 22-24A DP 26995
LOTS 54-55 DP 29493


DRAWING LIST		
DWG NO.	REV	DWG TITLE
GENERAL		
PS02-A000	A	COVER SHEET
EARTHWORKS		
PS02-C100	A	EARTHWORKS GRADING PLAN
FLOODING		
MODEL SETUP		
PS02-K000	A	CATCHMENT PLAN
PS02-K030	A	TUFLOW MODEL SETUP BOUNDARY CONDITIONS
MODEL RESULTS		
PS02-K160	A	1% AEP CRITICAL STORM DURATION EXISTING CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)
PS02-K162	A	1% AEP CRITICAL STORM DURATION EXISTING CONDITION WATER VELOCITY (m/s)
PS02-K164	A	1% CRITICAL STORM DURATION EXISTING CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES
PS02-K165	A	1% CRITICAL STORM DURATION EXISTING CONDITION ARR FLOOD HAZARD CATEGORIES
PS02-K180	A	PMF CRITICAL STORM DURATION EXISTING CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)
PS02-K182	A	PMF CRITICAL STORM DURATION EXISTING CONDITION WATER VELOCITY (m/s)
PS02-K184	A	PMF CRITICAL STORM DURATION EXISTING CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES
PS02-K185	A	PMF CRITICAL STORM DURATION (45 MIN) EXISTING CONDITION ARR FLOOD HAZARD CATEGORIES
PS02-K260	A	1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)
PS02-K262	A	1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER VELOCITY (m/s)
PS02-K264	A	1% CRITICAL STORM DURATION PROPOSED CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES
PS02-K265	A	1% CRITICAL STORM DURATION PROPOSED CONDITION ARR FLOOD HAZARD CATEGORIES
PS02-K280	A	1% CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)
PS02-K282	A	1% CRITICAL STORM DURATION PROPOSED CONDITION WATER VELOCITY (m/s)
PS02-K284	A	1% CRITICAL STORM DURATION PROPOSED CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES
PS02-K285	A	1% CRITICAL STORM DURATION PROPOSED CONDITION ARR FLOOD HAZARD CATEGORIES
PS02-K360	A	1% CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL IMPACT (m)

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV		DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	<div><div><div></div><div>Consulting Engineers</div><div>Environment Water Geotechnical Civil</div></div><div>Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au</div></div>	DRAWING TITLE				
A		INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH		---	---	TH	MACQUARIE HEALTH CORPORATION		COVER SHEET				
									<div>DISCLAIMER & COPYRIGHT</div> <div>This plan must not be used for construction unless signed as approved by principal certifying authority.</div> <div>All measurements in millimetres unless otherwise specified.</div> <div>This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd.</div> <div>(C) Copyright Martens & Associates Pty Ltd</div>			<div>PROJECT NAME/PLANSET TITLE</div> <div>PRESIDENT PRIVATE HOSPITAL</div> <div>PRELIMINARY FLOOD ASSESSMENT</div> <div>369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW</div>		<div>PROJECT NO.</div> <div>P1907286</div> <div>PLANSET NO.</div> <div>PS02</div> <div>RELEASE NO.</div> <div>R01</div> <div>DRAWING NO.</div> <div>PS02-A000</div> <div>REVISION</div> <div>A</div>				
A1 / A3 LANDSCAPE [A1L_C_v02 0.01]								DRAWING ID: P1907286-PS02-R01-A000										



STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE						
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 1 2 3 4 5 6 7 8 9 10 A1 (A3) 1:100 (1:200) METRES	MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION	CONCEPT REDIVISION SWALE GRADING DESIGN						
							DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. (C) Copyright Martens & Associates Pty Ltd		PROJECT NAME/PLANSET TITLE PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT 369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW		 Consulting Engineers Environment Water Geotechnical Civil Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au		PROJECT NO. P1907286		PLANSET NO. PS02	RELEASE NO. R01	DRAWING NO. PS02-C100	REVISION A
A1 / A3 LANDSCAPE [A1L_C_v02.0.01]													DRAWING ID: P1907286-PS02-R01-C100					



KEY

- FINAL SURFACE CONTOURS ——— 70.0 ———
- SITE BOUNDARY —————
- CADASTRE BOUNDARY —————
- CATCHMENT BOUNDARY ———+———

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH

SCALE
0 20 40 60 80 100 120 140 160 180 200
A1 (A3) 1:2,000 (1:4,000) METRES

GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION
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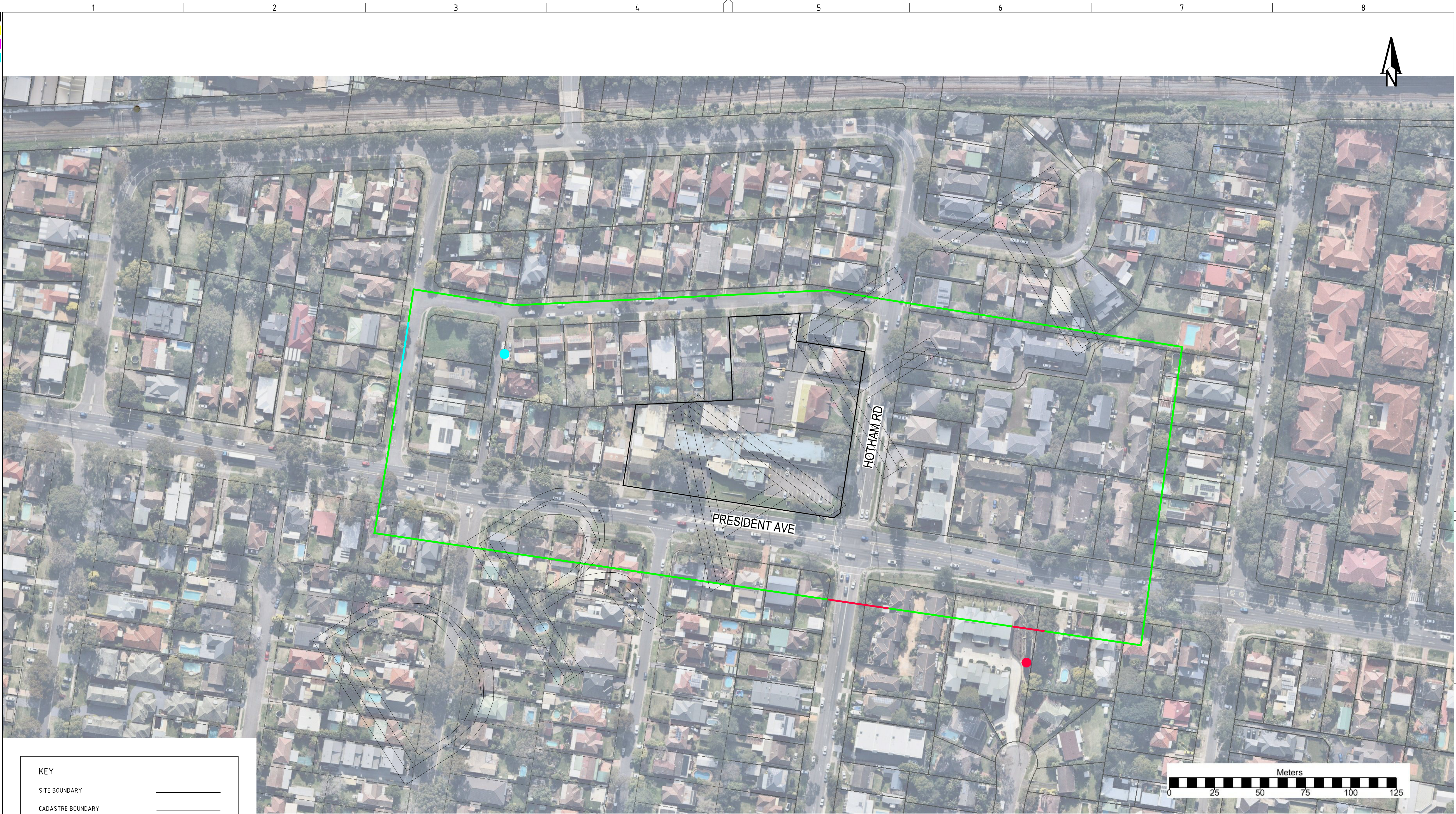
PROJECT NAME/PLANSET TITLE
PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT
369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW

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DRAWING TITLE				
CATCHMENT PLAN				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K000	A



KEY

SITE BOUNDARY

CADASTRE BOUNDARY

ACTIVE AREA

INFLOW (QT)

SLOPE (HQ)

INFLOW (QT)

SLOPE (HQ)

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH

SCALE

0102030405060708090100

A1 (A3) 1:1,000 (1:2,000)

METRES

GRID

MGA

DATUM

mAHD

PROJECT MANAGER

TH

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MACQUARIE HEALTH CORPORATION

PROJECT NAME/PLANSET TITLE

PRESIDENT PRIVATE HOSPITAL

PRELIMINARY FLOOD ASSESSMENT

369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW

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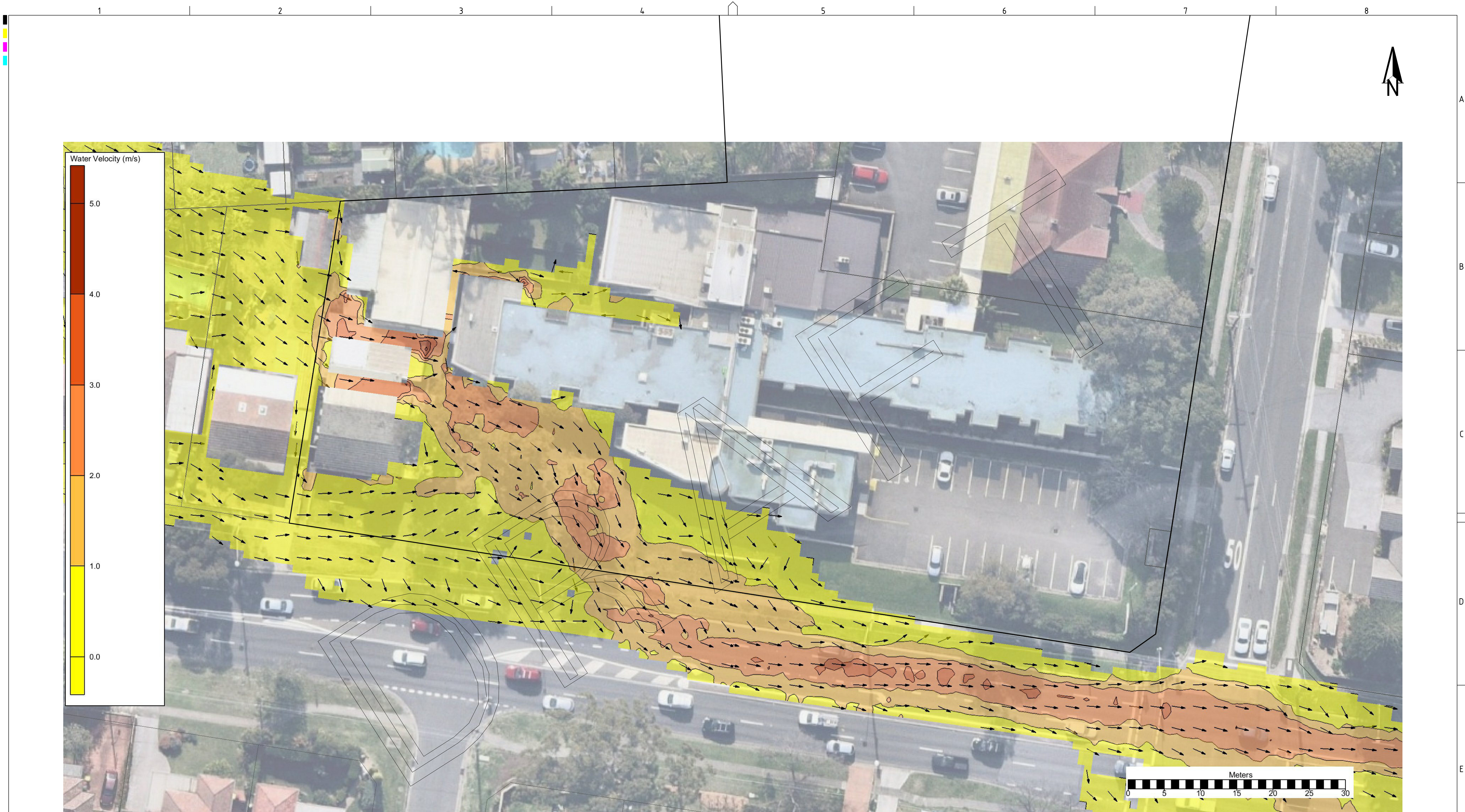
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DRAWING TITLE				
TUFLOW MODEL SETUP BOUNDARY CONDITIONS				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K030	A

PRINTED: 25/09/2020 14:52:14

A1 / A3 LANDSCAPE (A1L_C_002 0.01)

DRAWING ID: P1907286-PS02-R01-K030



KEY	
SITE BOUNDARY	_____
CADASTRE BOUNDARY	_____

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH

SCALE
0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
A1 (A3) 1:250 (1:500) METRES

GRID	DATUM	PROJECT MANAGER
MGA	mAHD	TH
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CLIENT
MACQUARIE HEALTH CORPORATION
PROJECT NAME/PLANSET TITLE
PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT
369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW

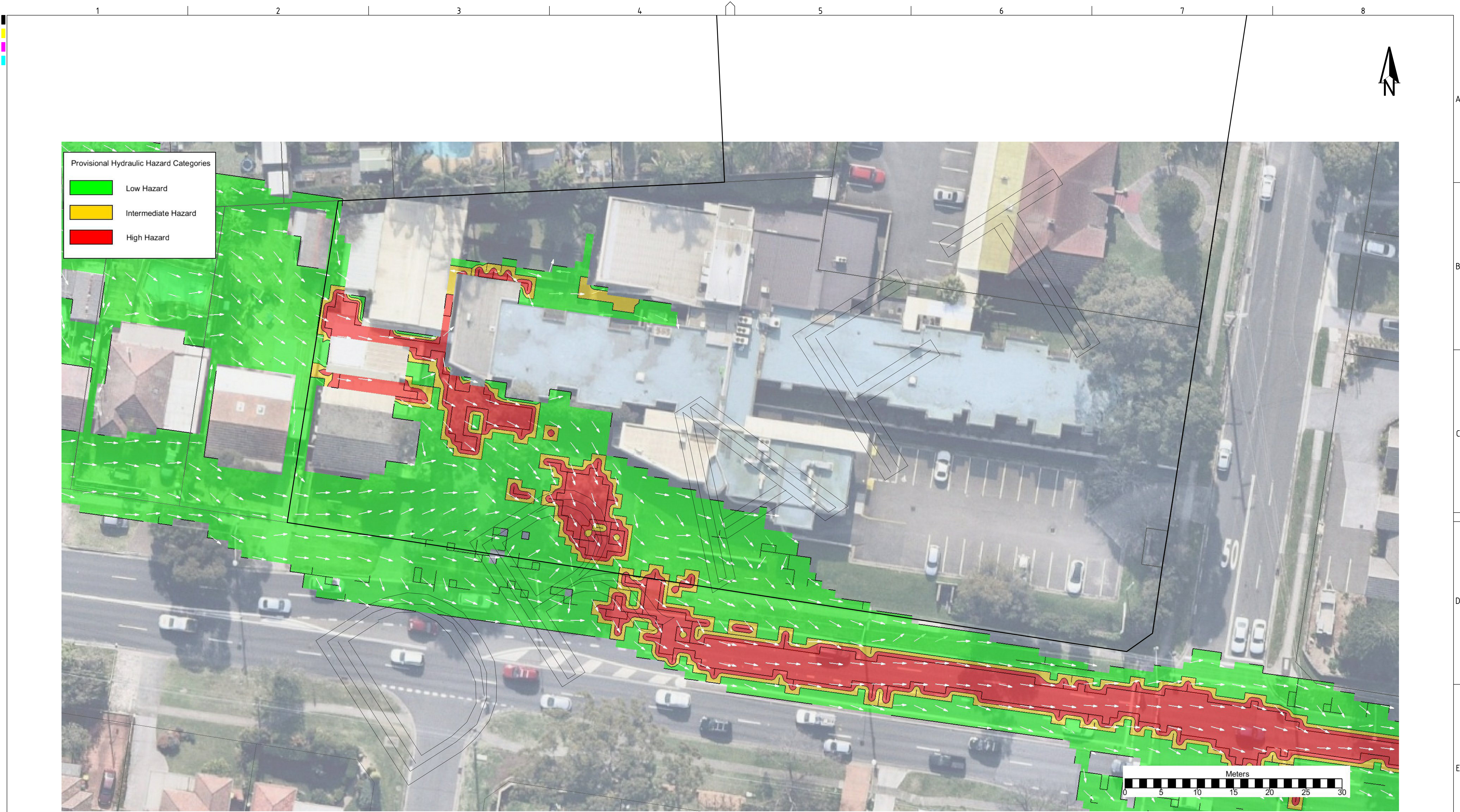
	Consulting Engineers	
	Environment	Water
	Geotechnical	Civil
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Email: mail@martens.com.au Internet: www.martens.com.au		

DRAWING TITLE				
1% AEP CRITICAL STORM DURATION EXISTING CONDITION WATER VELOCITY (m/s)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K162	A

PRINTED: 25/09/2020 14:52:14

A1 / A3 LANDSCAPE (A1L_C_02.0.01)



DRAWING ID: P1907286-PS02-R01-K162



KEY	
SITE BOUNDARY	_____
CADASTRE BOUNDARY	_____

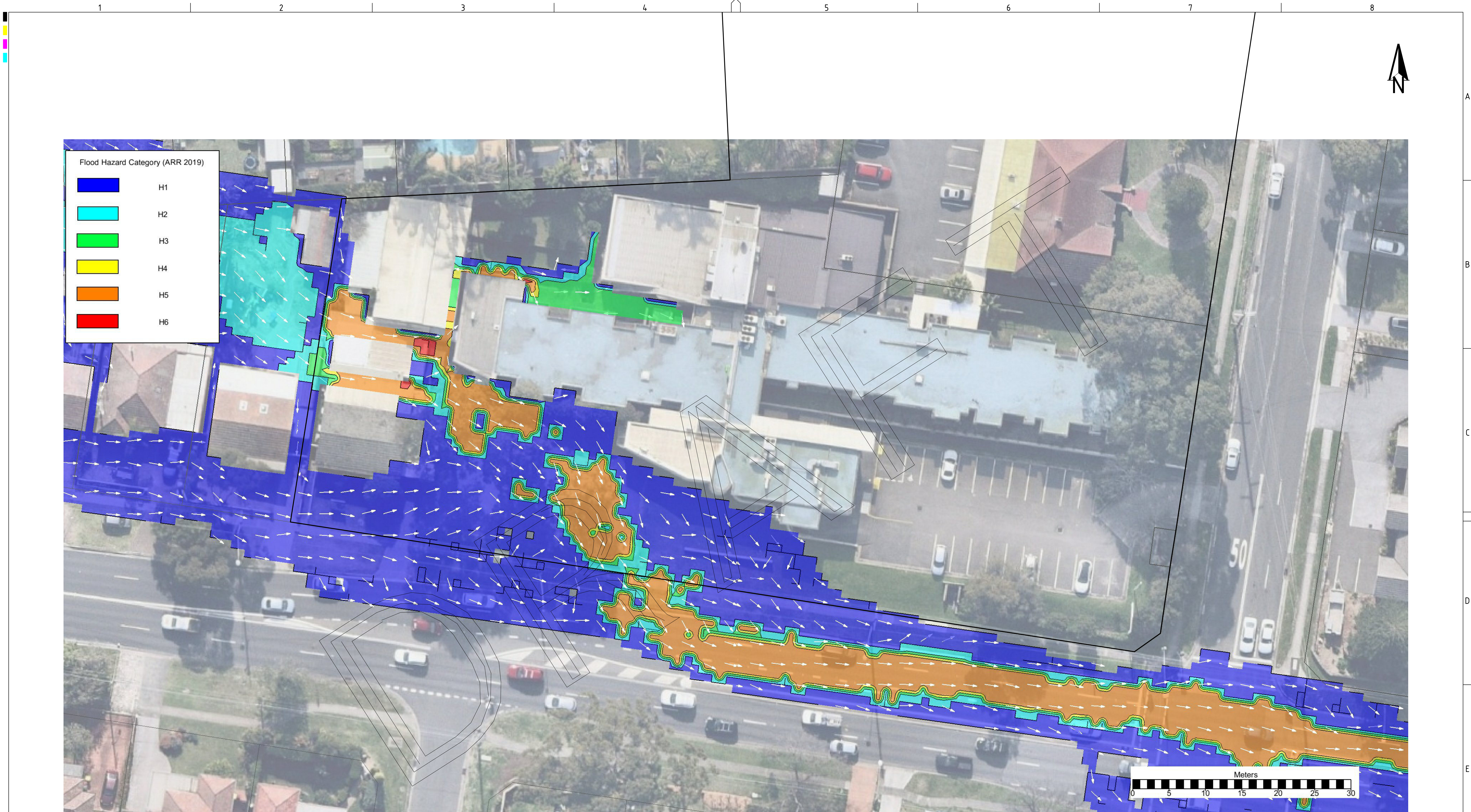
NOTES:
- HYDRAULIC HAZARD BASED ON NSW GOVERNMENT (2005) FLOODPLAIN DEVELOPMENT MANUAL PROVISIONAL HYDRAULIC HAZARD CATEGORIES.

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REVISION		DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE 0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 A1 (A3) 1:250 (1:500) METRES	GRID	DATUM	PROJECT MANAGER	CLIENT	<div><div>Consulting Engineers Environment Water Geotechnical Civil</div></div>	DRAWING TITLE					
A		INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH		MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION		PROJECT NAME/PLANSET TITLE	1% AEP CRITICAL STORM DURATION EXISTING CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES				
								DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. (C) Copyright Martens & Associates Pty Ltd				PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT 369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW				<div><div>Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au</div></div>			
												PROJECT NO. P1907286 PLANSET NO. PS02 RELEASE NO. R01 DRAWING NO. PS02-K164 REVISION A							

A1 / A3 LANDSCAPE [A1LC_v02.0.01]

DRAWING ID: P1907286-PS02-R01-K164



KEY

SITE BOUNDARY _____

CADASTRE BOUNDARY _____

NOTES:

- FLOOD HAZARD CATEGORIES BASED ON AUSTRALIAN RAINFALL AND RUNOFF (2019) "A GUID TO FLOOD ESTIMATION" COMBINED FLOOD HAZARD CATEGORIES.

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH

SCALE

0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0

A1 (A3) 1:250 (1:500) METRES

GRID

MGA

DATUM

mAHD

PROJECT MANAGER

TH

CLIENT

MACQUARIE HEALTH CORPORATION

PROJECT NAME/PLANSET TITLE

PRESIDENT PRIVATE HOSPITAL

PRELIMINARY FLOOD ASSESSMENT

369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW

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Water

Geotechnical

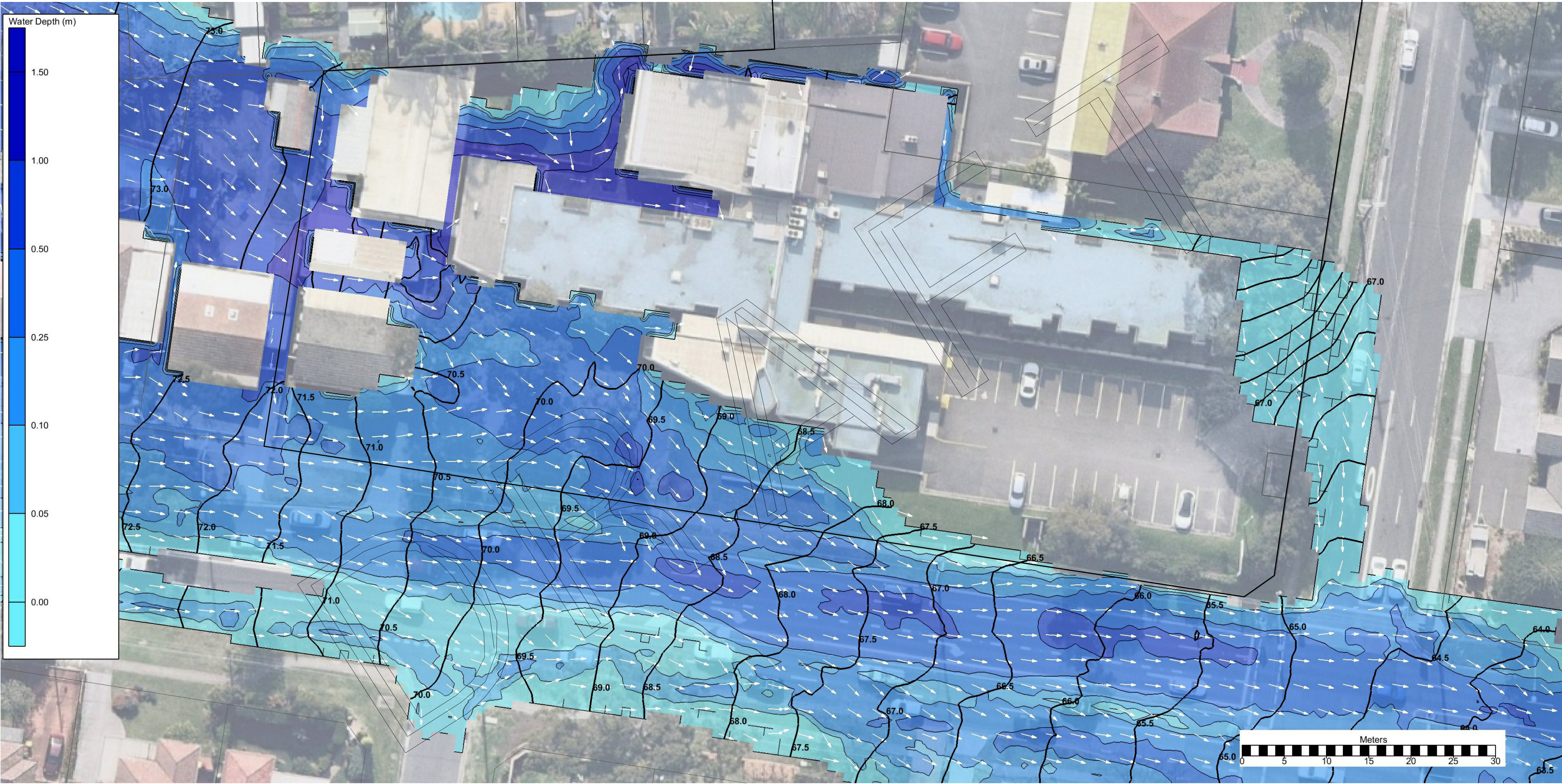
Civil

martens

& Associates Pty Ltd

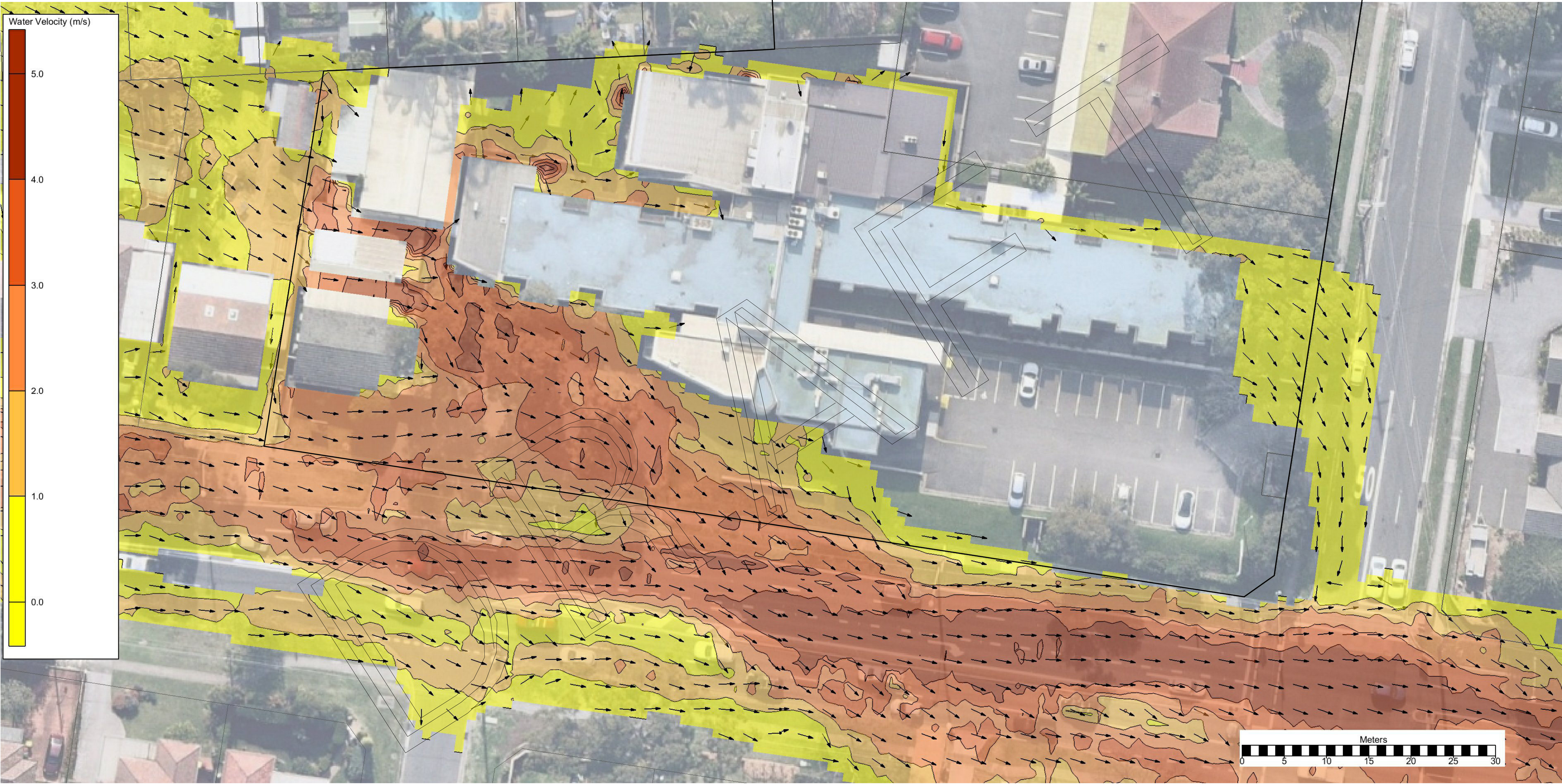
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DRAWING TITLE				
1% AEP CRITICAL STORM DURATION EXISTING CONDITION ARR FLOOD HAZARD CATEGORIES				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K165	A





KEY	
SITE BOUNDARY	_____
CADASTRE BOUNDARY	_____

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	<div>SCALE</div> <div><div><div>0</div><div>2.5</div><div>5.0</div><div>7.5</div><div>10.0</div><div>12.5</div><div>15.0</div><div>17.5</div><div>20.0</div><div>22.5</div><div>25.0</div></div><div>A1 (A3) 1:250 (1:500)</div><div>METRES</div></div> <td>GRID</td> <td>DATUM</td> <td>PROJECT MANAGER</td> <td>CLIENT</td> <td rowspan="7"><div><div><div><div></div><div></div><div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></div></div></div><div><div><div></div><div></div><div></div></div><div><div></div><div></div><div></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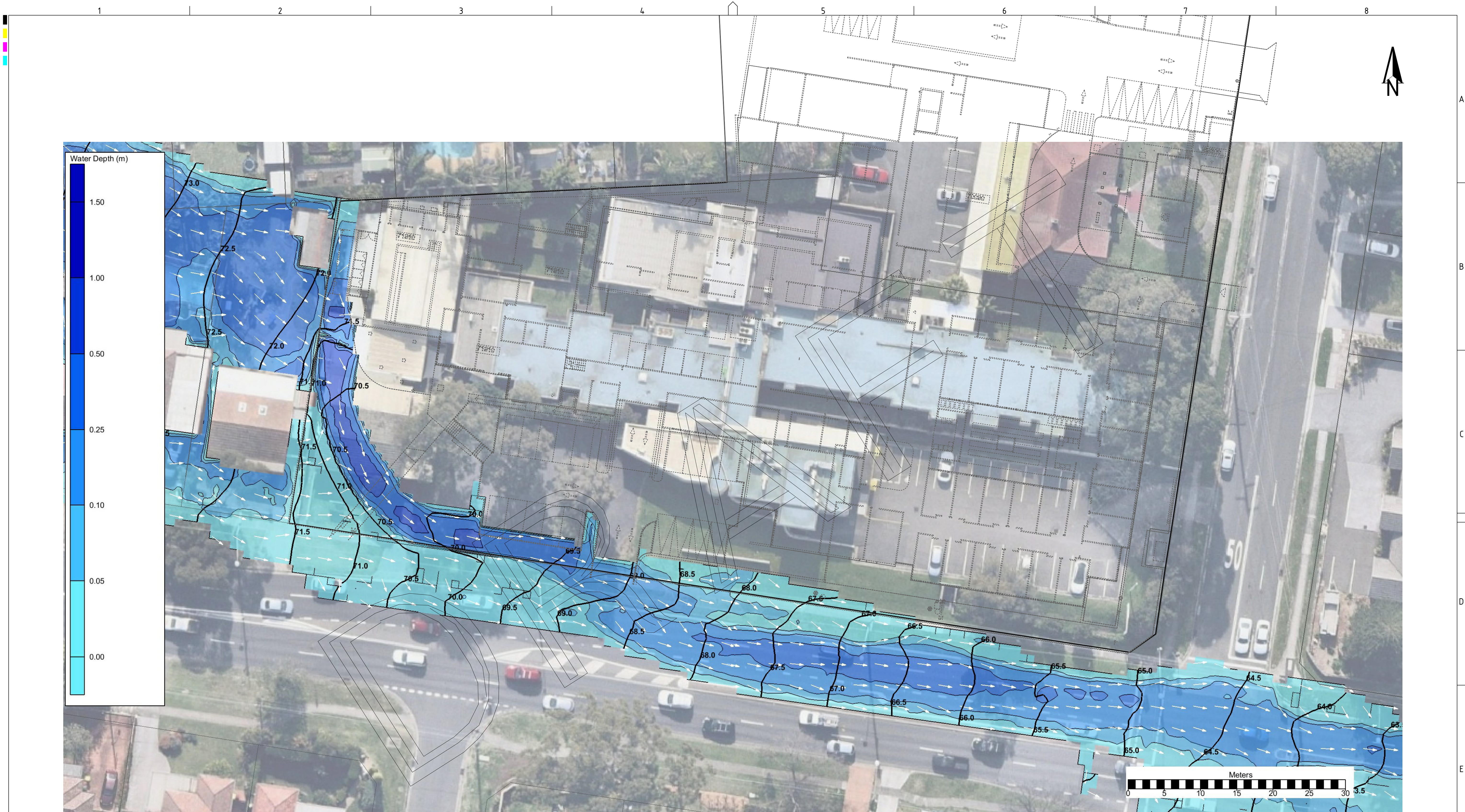


KEY	
SITE BOUNDARY	_____
CADASTRE BOUNDARY	_____

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE 	GRID	DATUM	PROJECT MANAGER	CLIENT	 <div>Consulting Engineers Environment Water Geotechnical Civil</div>	DRAWING TITLE				
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH		MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION		PROJECT NAME/PLANSET TITLE	PMF CRITICAL STORM DURATION EXISTING CONDITION WATER VELOCITY (m/s)			
								DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. (C) Copyright Martens & Associates Pty Ltd				<div>369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW</div> <div>Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au</div>	PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
										P1907286	PS02		R01	PS02-K182	A		

1/ A3 LANDSCAPE [A1LC_v02.0.0]

DRAWING ID: P1907286-PS02-R01-K182



KEY	
SITE BOUNDARY	—————
CADASTRE BOUNDARY	—————
PROPOSED LOT LAYOUT

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH

SCALE
0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
A1 (A3) 1:250 (1:500) METRES

GRID
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mAHD
PROJECT MANAGER
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PRESIDENT PRIVATE HOSPITAL
PRELIMINARY FLOOD ASSESSMENT
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2-4 BIDURGAL AVE, KIRRAWEE, NSW

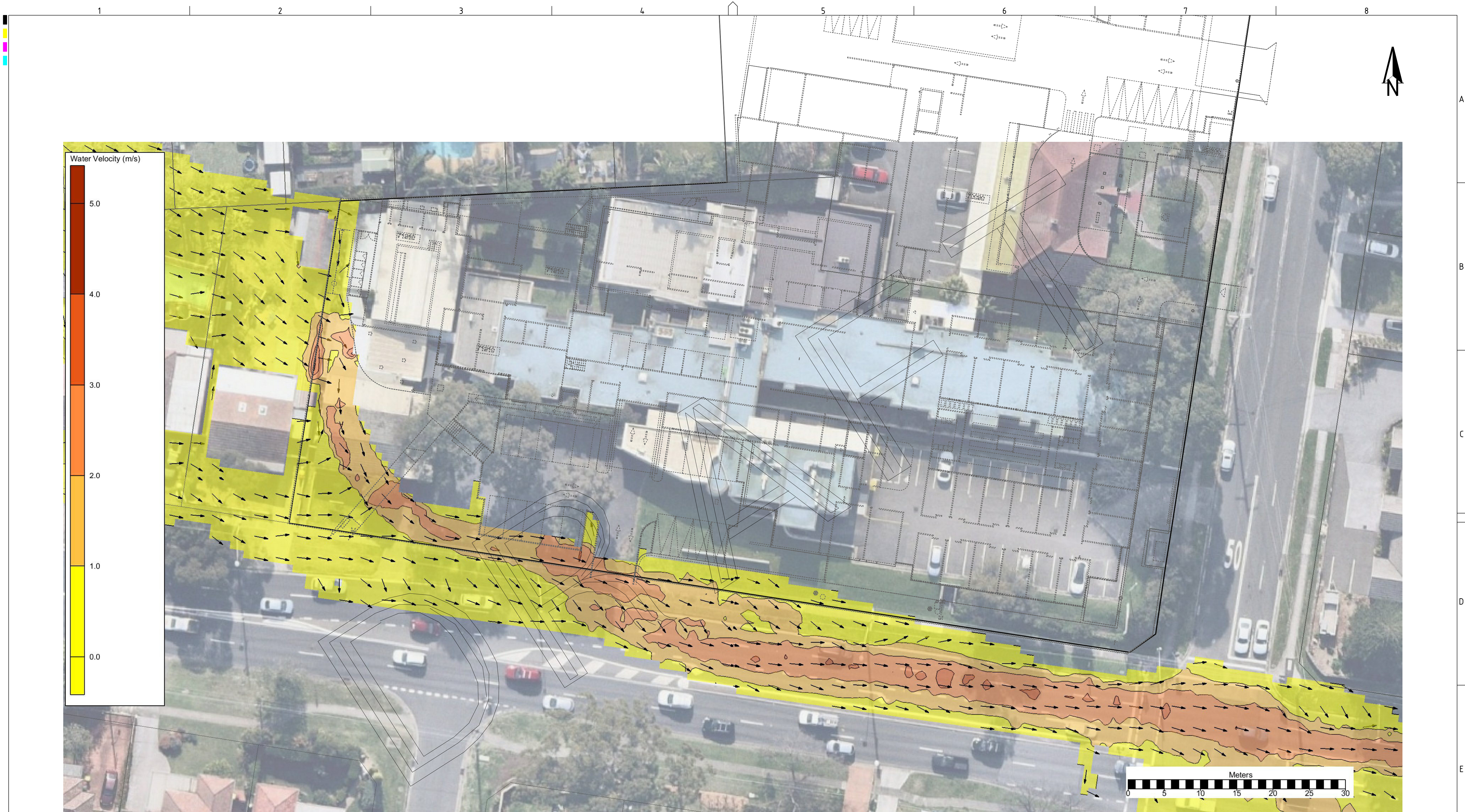
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DRAWING TITLE				
1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)				
PROJECT NO. P1907286	PLANSET NO. PS02	RELEASE NO. R01	DRAWING NO. PS02-K260	REVISION A

PRINTED: 25/09/2020 14:52:14
USED: 19/09/2020 14:52:14

A1 / A3 LANDSCAPE (A1LC_02.0.01)

DRAWING ID: P1907286-PS02-R01-K260 0 5 10 15 20 25 30 35



KEY	
SITE BOUNDARY	_____
CADASTRE BOUNDARY	_____
PROPOSED LOT LAYOUT	_____

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH

SCALE
0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
A1 (A3) 1:250 (1:500) METRES

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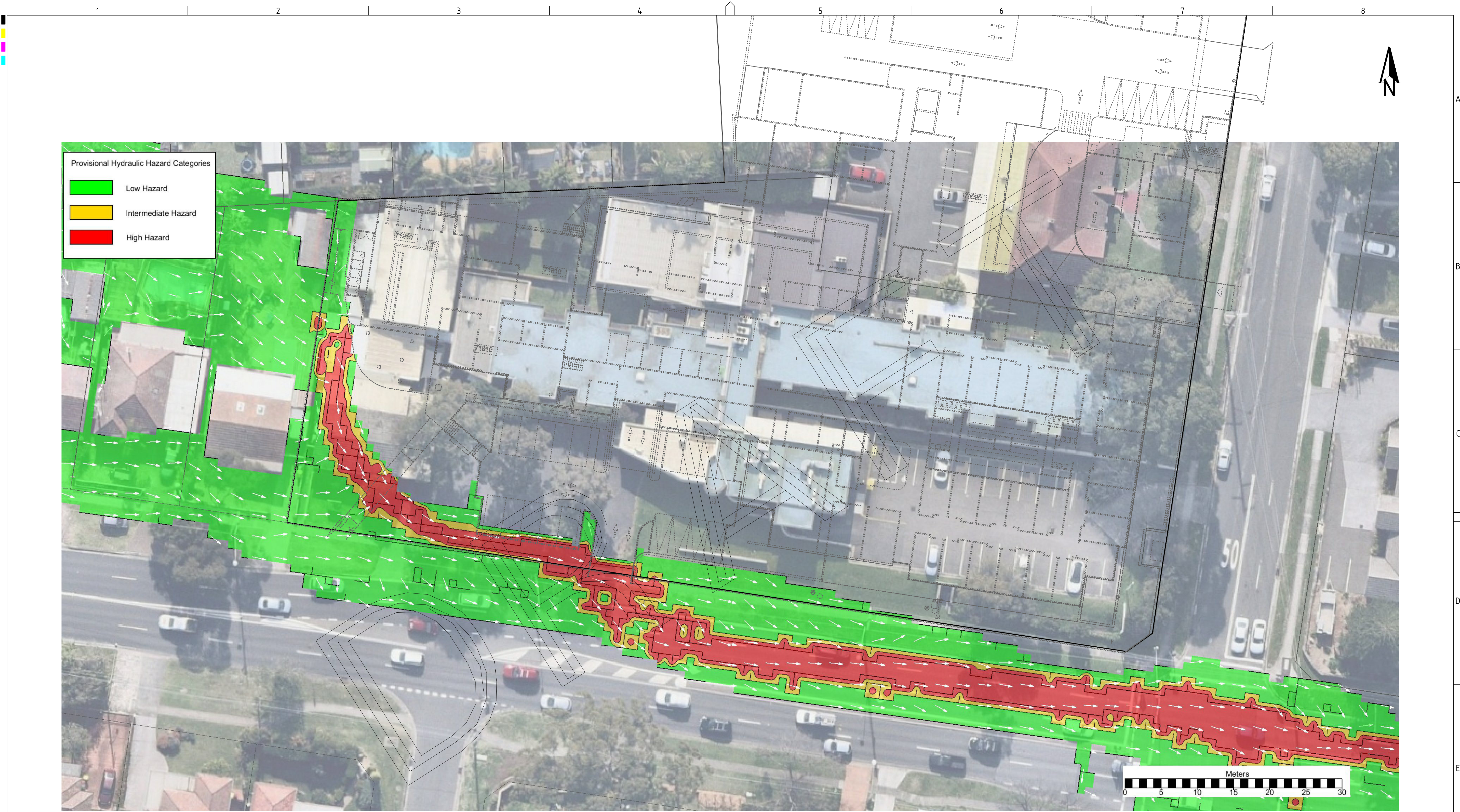
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MACQUARIE HEALTH CORPORATION
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DRAWING TITLE				
1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER VELOCITY (m/s)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K262	A

PRINTED: 25/09/2020 10:00:00
FILE: A1 / A3 LANDSCAPE (A1LC_02.0.01)

DRAWING ID: P1907286-PS02-R01-K262



KEY

SITE BOUNDARY _____


CADASTRE BOUNDARY _____

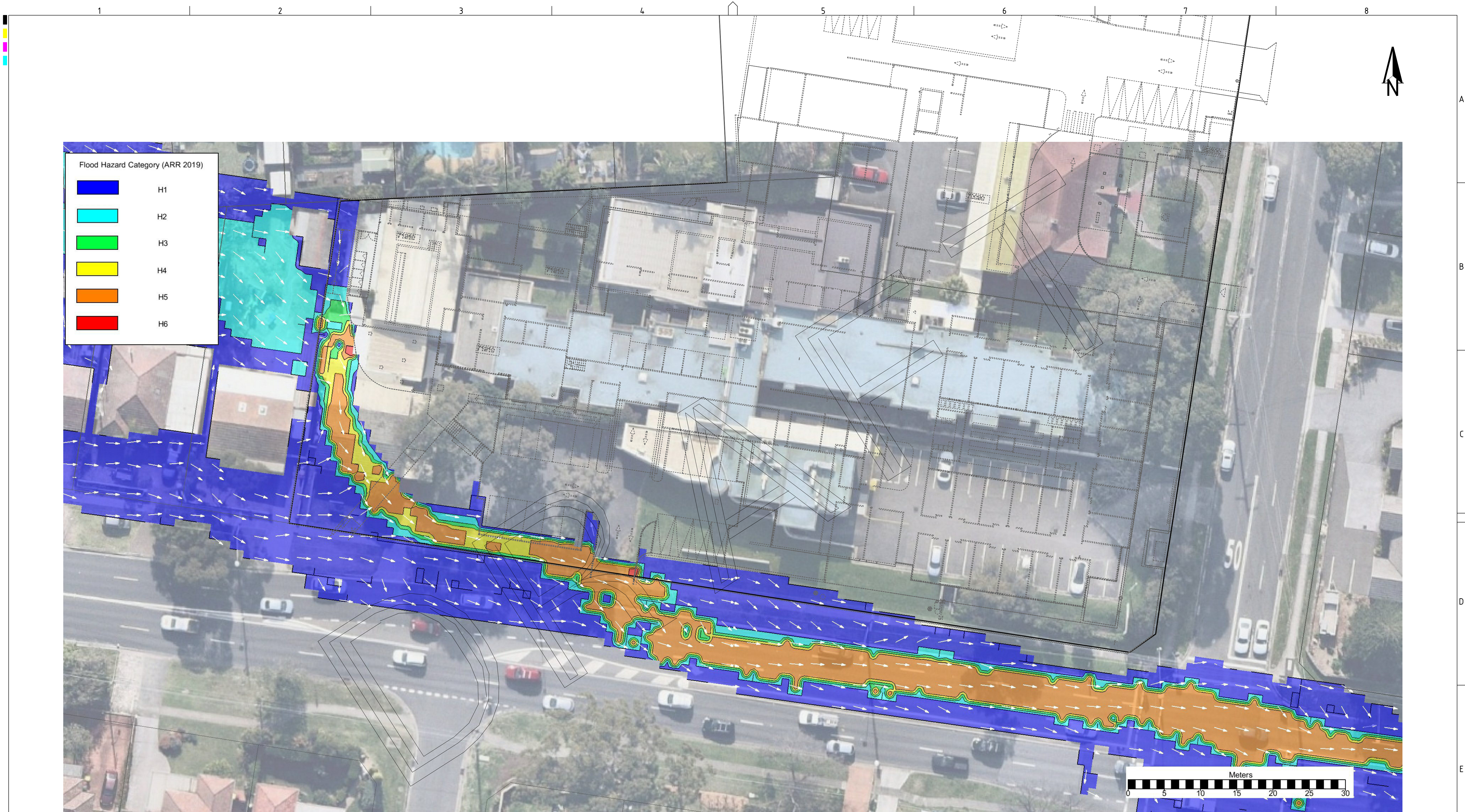
PROPOSED LOT LAYOUT - - - - -

NOTES:

- HYDRAULIC HAZARD BASED ON NSW GOVERNMENT (2005) FLOODPLAIN DEVELOPMENT MANUAL PROVISIONAL HYDRAULIC HAZARD CATEGORIES.

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV		DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE 0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 A1 (A3) 1:250 (1:500) METRES	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE							
A		INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH		MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION		1% AEP CRITICAL STORM DURATION PROPOSED CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES						
								DISCLAIMER & COPYRIGHT			PROJECT NAME/PLANSET TITLE PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT 369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW			 Consulting Engineers Environment Water Geotechnical Civil		PROJECT NO.		RELEASE NO.	DRAWING NO.	REVISION
								This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. (C) Copyright Martens & Associates Pty Ltd								P1907286		PS02	R01	PS02-K264
											Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au			DRAWING ID: P1907286-PS02-R01-K264						



KEY

- SITE BOUNDARY
- CADASTRE BOUNDARY
- PROPOSED LOT LAYOUT

NOTES:

- FLOOD HAZARD CATEGORIES BASED ON AUSTRALIAN RAINFALL AND RUNOFF (2019) "A GUID TO FLOOD ESTIMATION" COMBINED FLOOD HAZARD CATEGORIES.

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH

SCALE
0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
A1 (A3) 1:250 (1:500) METRES

GRID
MGA
DATUM
mAHD
PROJECT MANAGER
TH
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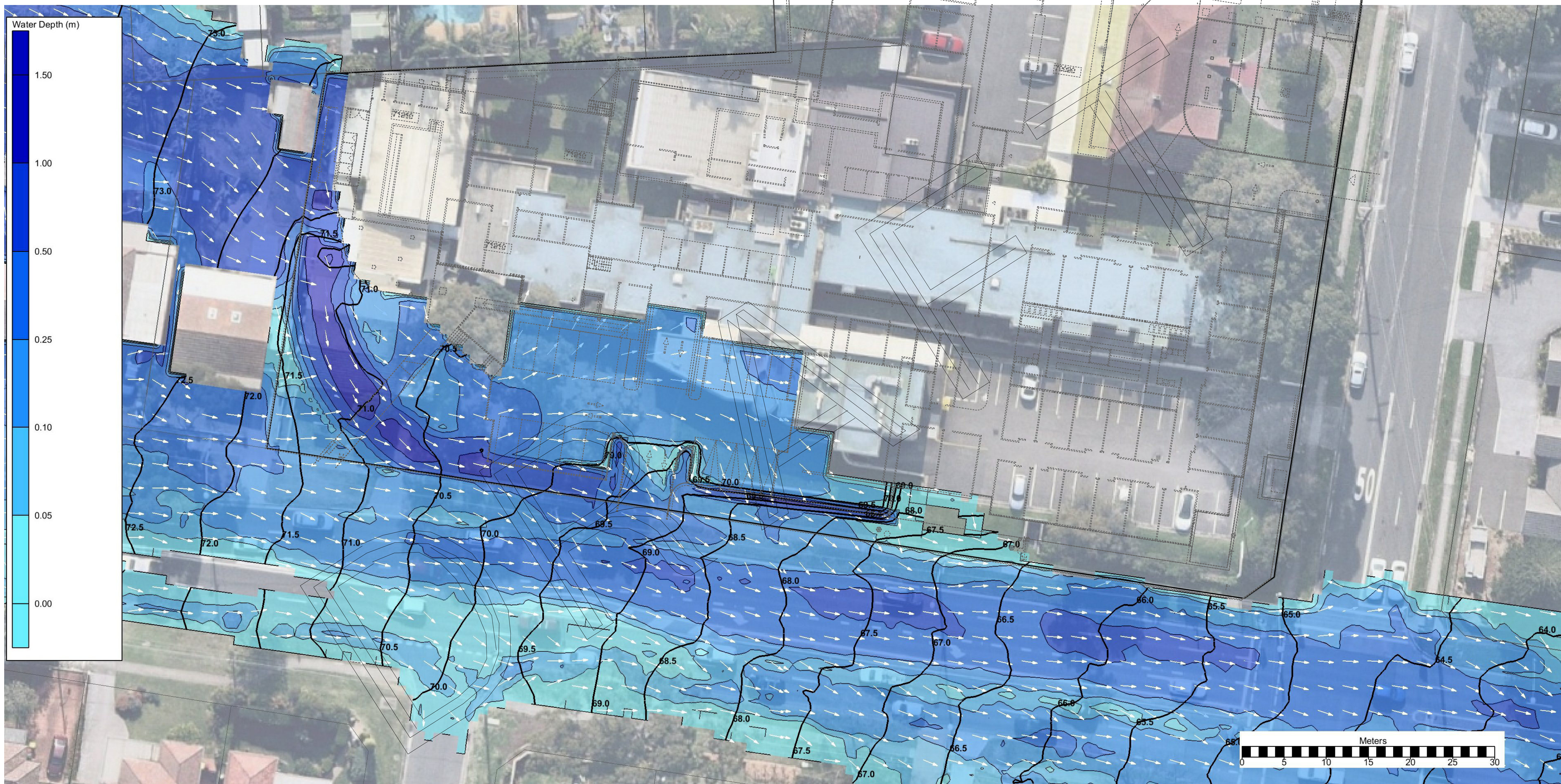
CLIENT
MACQUARIE HEALTH CORPORATION
PROJECT NAME/PLANSET TITLE
PRESIDENT PRIVATE HOSPITAL
PRELIMINARY FLOOD ASSESSMENT
369-381 PRESIDENT AVE, 61-65 HOTHAM RD &
2-4 BIDURGAL AVE, KIRRAWEE, NSW

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& Associates Pty Ltd
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Civil
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Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
1% AEP CRITICAL STORM DURATION PROPOSED CONDITION ARR FLOOD HAZARD CATEGORIES				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K265	A

DRAWING ID: P1907286-PS02-R01-K265

0 5 10 15 20 25 30 METRES



KEY	
SITE BOUNDARY	—————
CADASTRE BOUNDARY	—————
PROPOSED LOT LAYOUT

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH

SCALE
0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0
A1 (A3) 1:250 (1:500) METRES

GRID	DATUM	PROJECT MANAGER	CLIENT
MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION
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PROJECT NAME/PLANSET TITLE
PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT
369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW



Consulting Engineers
Environment
Water
Geotechnical
Civil

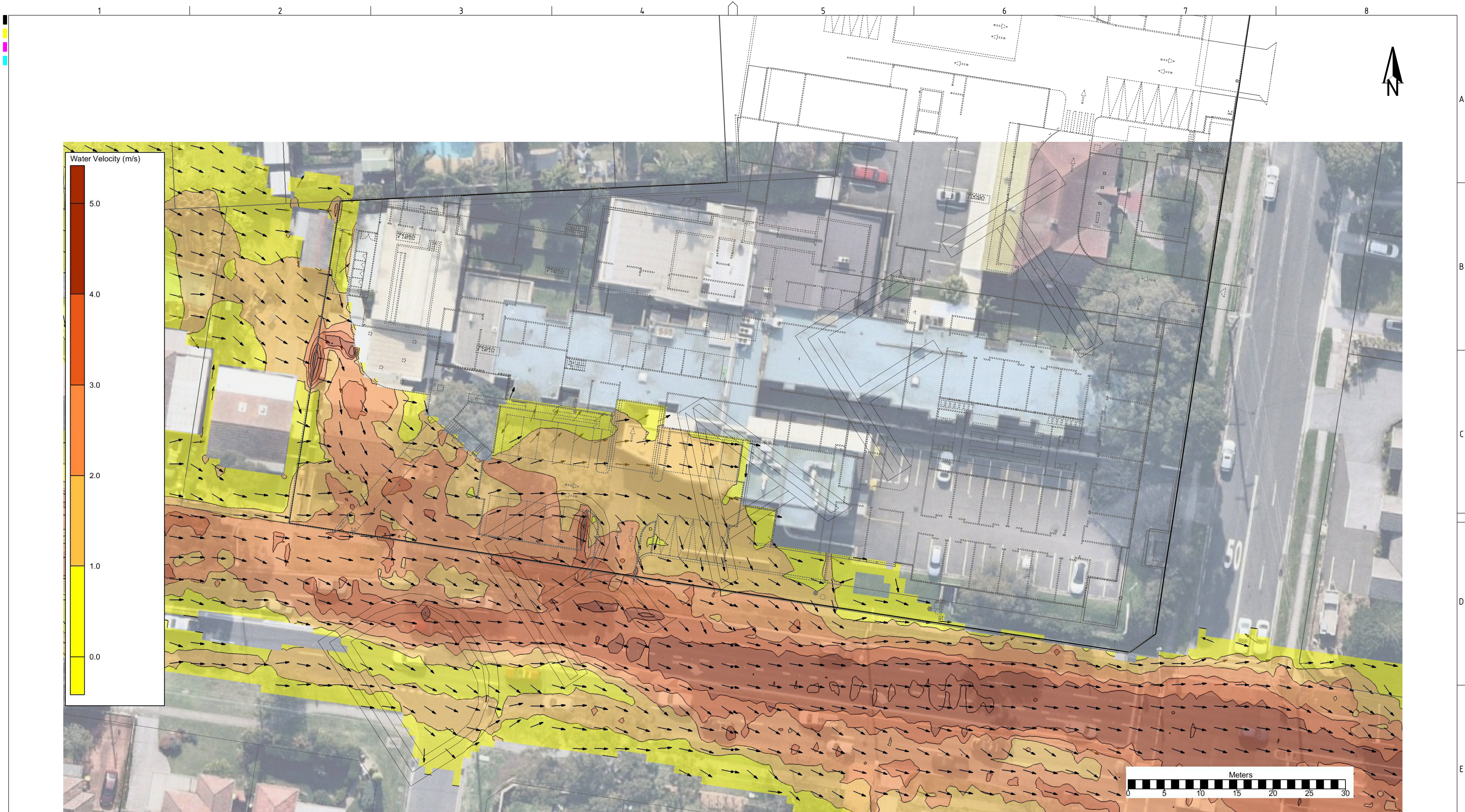
Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767
Email: mail@martens.com.au Internet: www.martens.com.au

DRAWING TITLE				
PMF CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL (mAHD) & WATER DEPTH (m)				
PROJECT NO.	PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
P1907286	PS02	R01	PS02-K280	A

PRINTED: 25/09/2020 14:52:14
USED: 25/09/2020 14:52:14

A1 / A3 LANDSCAPE (A1/LC_02.0.01)

DRAWING ID: P1907286-PS02-R01-K280 0 5 10 15 20 25 30



KEY

- SITE BOUNDARY
- CADASTRE BOUNDARY
- PROPOSED LOT LAYOUT

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH

SCALE
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A1 (A3) 1:250 (1:500) METRES

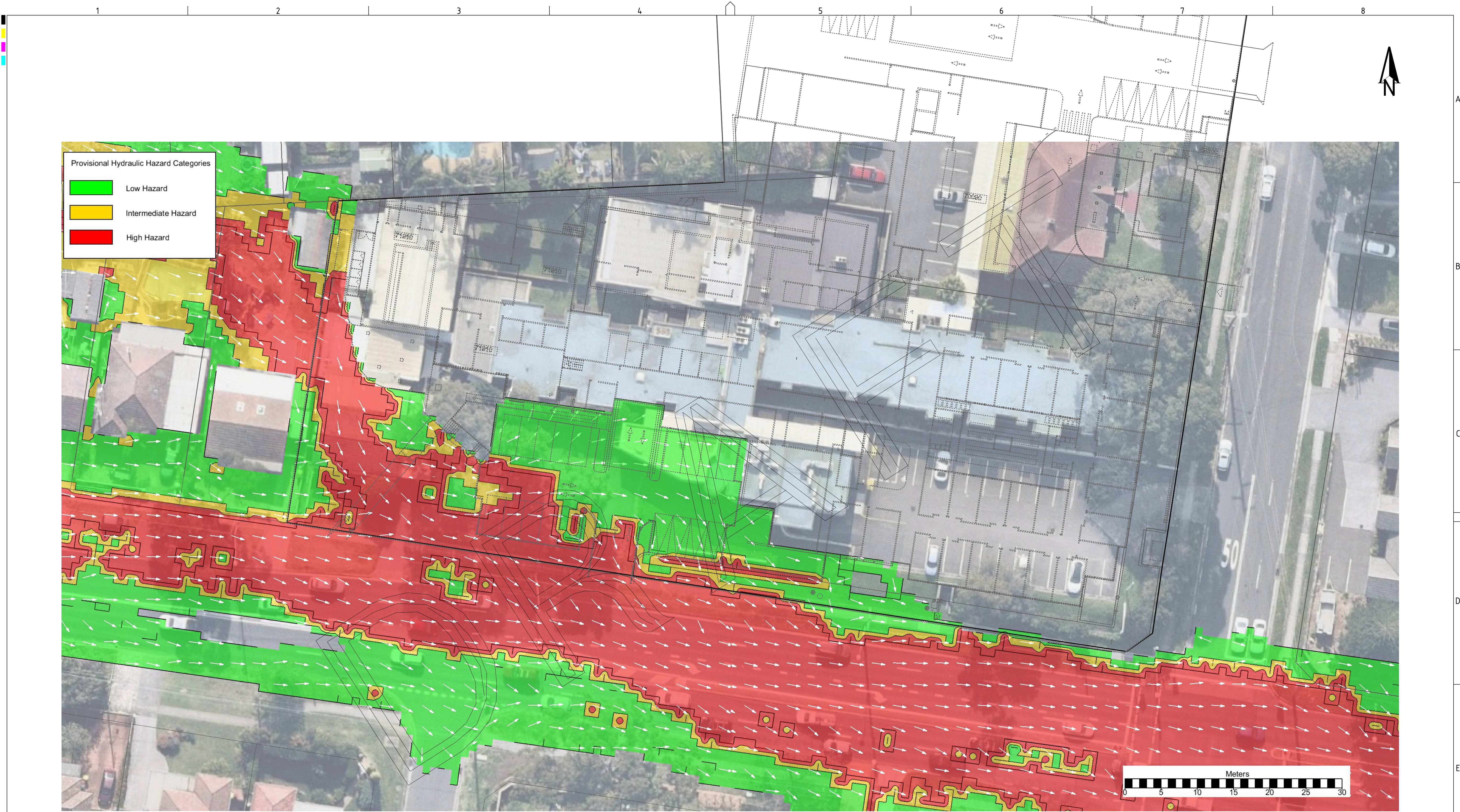
GRID
MGA
DATUM
mAHd
PROJECT MANAGER
TH
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CLIENT
MACQUARIE HEALTH CORPORATION
PROJECT NAME/PLANSET TITLE
PRESIDENT PRIVATE HOSPITAL
PRELIMINARY FLOOD ASSESSMENT
369-381 PRESIDENT AVE, 61-65 HOTHAM RD &
2-4 BIDURGAL AVE, KIRRAWEE, NSW

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DRAWING TITLE				
PMF CRITICAL STORM DURATION PROPOSED CONDITION WATER VELOCITY (m/s)				
PROJECT NO. P1907286	PLANSET NO. PS02	RELEASE NO. R01	DRAWING NO. PS02-K282	REVISION A

DRAWING ID: P1907286-PS02-R01-K282



KEY

SITE BOUNDARY _____


CADASTRE BOUNDARY _____

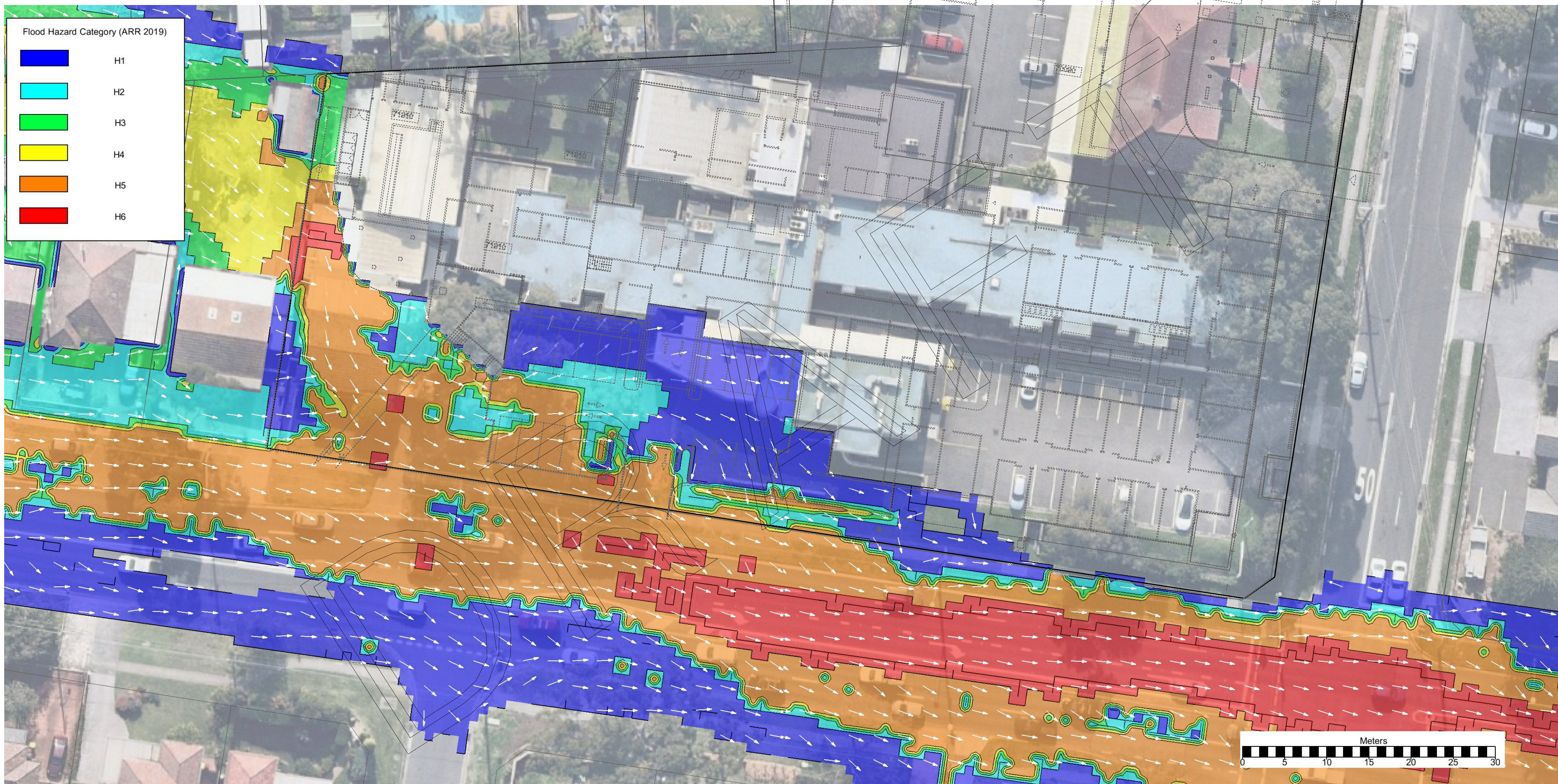
PROPOSED LOT LAYOUT - - - - -

NOTES:

- HYDRAULIC HAZARD BASED ON NSW GOVERNMENT (2005) FLOODPLAIN DEVELOPMENT MANUAL PROVISIONAL HYDRAULIC HAZARD CATEGORIES.

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV		DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE 0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 A1 (A3) 1:250 (1:500) METRES	GRID	DATUM	PROJECT MANAGER	CLIENT	 <div>Consulting Engineers Environment Water Geotechnical Civil</div>		DRAWING TITLE PMF CRITICAL STORM DURATION PROPOSED CONDITION PROVISIONAL HYDRAULIC HAZARD CATEGORIES	
A		INITIAL RELEASE	25/09/2020	RK		LZ			SL		TH					
												PROJECT NAME/PLANSET TITLE				
												PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT				
												369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW				
												DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. (C) Copyright Martens & Associates Pty Ltd				
A1 / A3 LANDSCAPE [A1LC_v02.0.01]																




KEY

- SITE BOUNDARY
- CADASTRE BOUNDARY
- PROPOSED LOT LAYOUT

NOTES:

- FLOOD HAZARD CATEGORIES BASED ON AUSTRALIAN RAINFALL AND RUNOFF (2019) "A GUID TO FLOOD ESTIMATION" COMBINED FLOOD HAZARD CATEGORIES.

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT	Consulting Engineers		DRAWING TITLE		
A	INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH	0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 A1 (A3) 1:250 (1:500) METRES	MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION	 Environment Water Geotechnical Civil		PMF CRITICAL STORM DURATION PROPOSED CONDITION ARR FLOOD HAZARD CATEGORIES		
								DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. (C) Copyright Martens & Associates Pty Ltd		PROJECT NAME/PLANSET TITLE PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT 369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW		Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au		PROJECT NO. PLANSET NO. RELEASE NO. DRAWING NO. REVISION P1907286 PS02 R01 PS02-K285 A		
A1 / A3 LANDSCAPE (A1/LC_v02.0.01)															DRAWING ID: P1907286-PS02-R01-K285	




KEY

- SITE BOUNDARY
- CADASTRE BOUNDARY
- PROPOSED LOT LAYOUT

NOTES:
- AREAS COLOURED WHITE REPRESENT NEGLIGIBLE CHANGE.
- AREAS COLOURED YELLOW / RED REPRESENT WATER LEVEL INCREASE.

STATE SIGNIFICANT DEVELOPMENT APPLICATION-NOT FOR CONSTRUCTION

REV		DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE 0 2.5 5.0 7.5 10.0 12.5 15.0 17.5 20.0 22.5 25.0 A1 (A3) 1:250 (1:500) METRES	GRID	DATUM	PROJECT MANAGER	CLIENT	DRAWING TITLE				
A		INITIAL RELEASE	25/09/2020	RK	LZ	SL	TH		MGA	mAHD	TH	MACQUARIE HEALTH CORPORATION	martens & Associates Pty Ltd		Consulting Engineers		
								DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by principal certifying authority. All measurements in millimetres unless otherwise specified. This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. (C) Copyright Martens & Associates Pty Ltd		PROJECT NAME/PLANSET TITLE PRESIDENT PRIVATE HOSPITAL PRELIMINARY FLOOD ASSESSMENT 369-381 PRESIDENT AVE, 61-65 HOTHAM RD & 2-4 BIDURGAL AVE, KIRRAWEE, NSW		 Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 8767 Email: mail@martens.com.au Internet: www.martens.com.au		1% AEP CRITICAL STORM DURATION PROPOSED CONDITION WATER LEVEL IMPACT (m)			
PRINTED: --- USER: P1907286												PROJECT NO.		PLANSET NO.	RELEASE NO.	DRAWING NO.	REVISION
												P1907286		PS02	R01	PS02-K360	A
A1 / A3 LANDSCAPE [A1LC_v02.0.01]														DRAWING ID: P1907286-PS02-R01-K360			