

SITE TOTAL PEAK DISCHARGE			
	20%	5%	1%
Undeveloped	354	603	735
Developed	806	1105	1462
Current	350	442	530
Proposed Preliminary Design			

Filename: SKC04.dwg - User: Garry - Plot File Created: Oct 25, 2019 - 11:53am

SCALE 1:500 0 5 10 15 20 25
AT ORIGINAL SIZE m

P6	ISSUED FOR DA	SB	GG	25.10.19					
P5	PRELIMINARY	SB	GG	22.10.19					
P4	PRELIMINARY	SB	AI	15.10.19					
P3	PRELIMINARY	NvdH	AS	15.06.18					
P2	PRELIMINARY	NvdH	AS	06.06.18					
P1	PRELIMINARY	NvdH	AS	05.06.18					
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

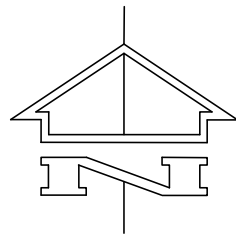
Civil Engineer
TTW Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
FORESTWAY SHOPPING CENTRE REDEVELOPMENT

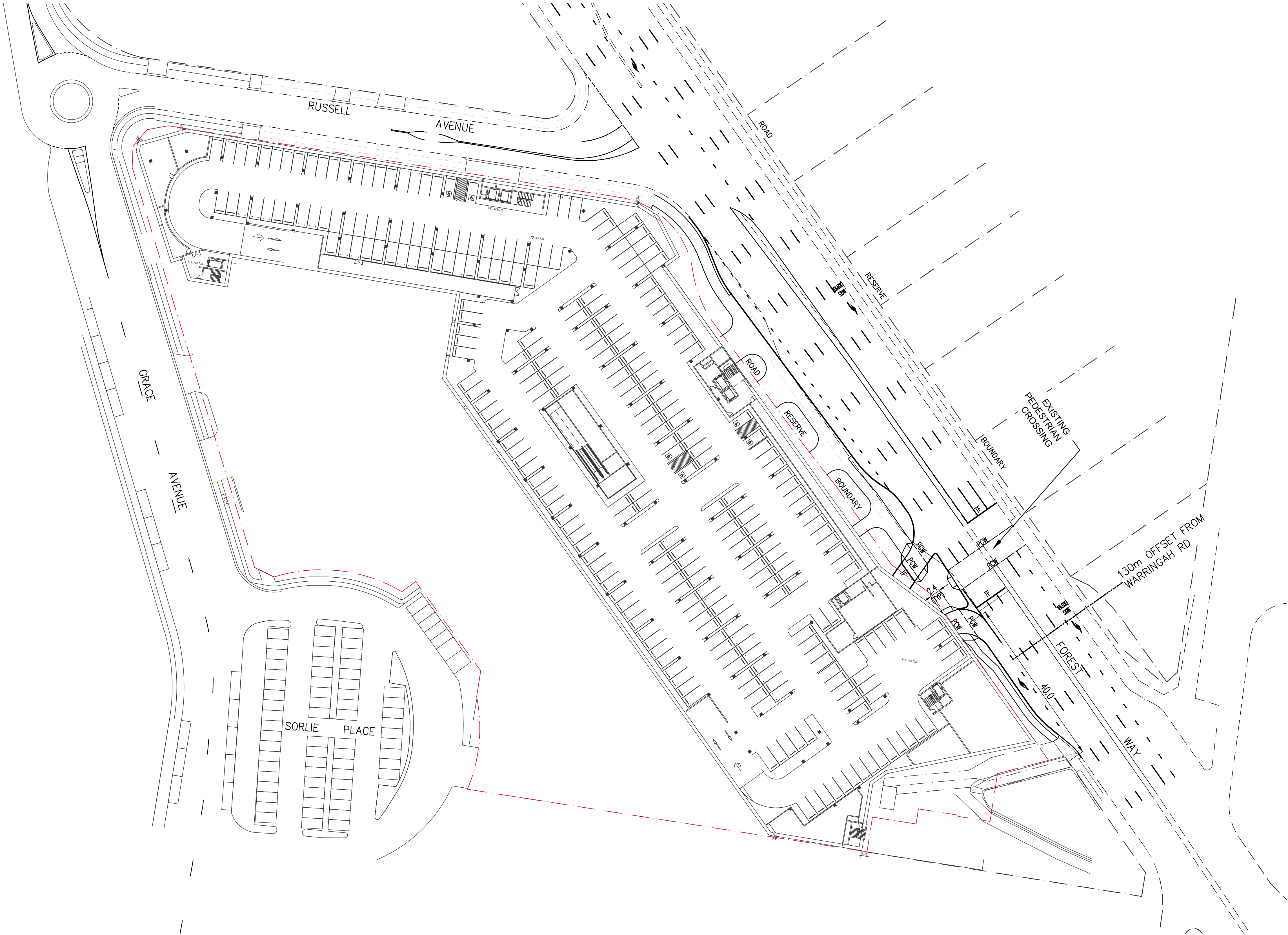
Sheet Subject
CATCHMENT PLAN

Scale : A1
1:500
Drawn
AS
Authorised
Job No
181210
Drawing No
SKC04
Revision
P6
Plot File Created: Oct 25, 2019 - 11:53am

AMENDED DA SUBMISSION



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Filename: SKC05.dwg - User: Ceng - Plot File Created: Oct 25, 2019 - 11:53am

SCALE 1:500 0 5 10 15 20 25
AT ORIGINAL SIZE

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P4	ISSUED FOR DA	SB	GG	25.10.19										
P3	PRELIMINARY	SB	GG	22.10.19										
P2	PRELIMINARY	SB	AI	15.10.19										
P1	PRELIMINARY	SB	GG	17.08.18										

Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

Civil Engineer

**Taylor Thomson Whitting**

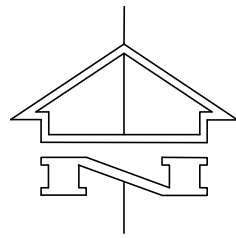
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
FORESTWAY SHOPPING CENTRE REDEVELOPMENT

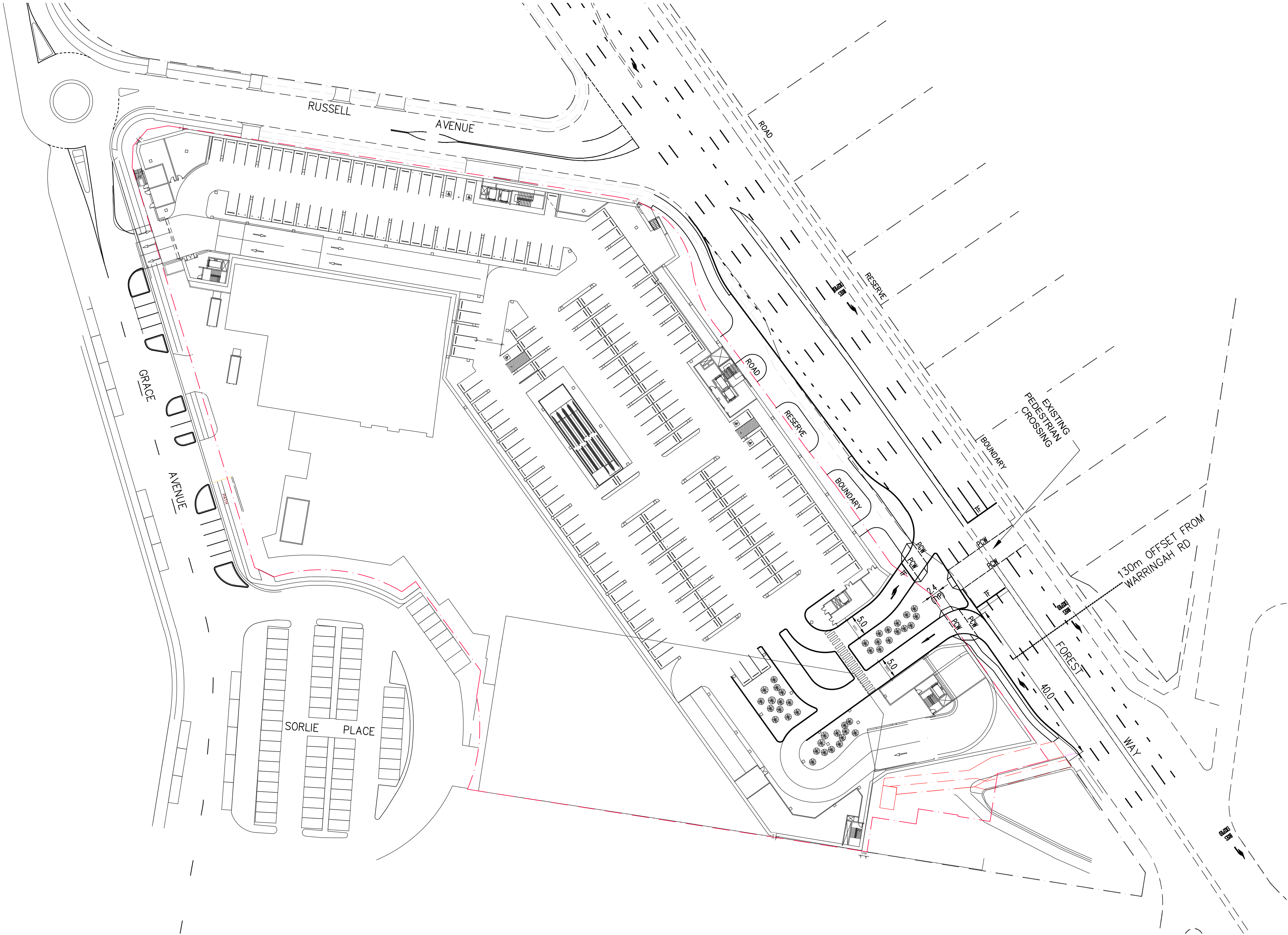
AMENDED DA SUBMISSION

Sheet Subject
SITEWORKS PLAN LEVEL B2

Scale	Drawn	Authorised
A1 1:500	AS	
Job No	Drawing No	Revision
181210	SKC05	P4
Plot File Created: Oct 25, 2019 - 11:53am		



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Filename: SKC06.dwg - USER: Ceng - Plot File Created: Oct 25, 2019 - 11:54am

SCALE 1:500 0 5 10 15 20 25
AT ORIGINAL SIZE

AMENDED DA SUBMISSION

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P4	ISSUED FOR DA	SB	GG	25.10.19										
P3	PRELIMINARY	SB	GG	22.10.19										
P2	PRELIMINARY	SB	AI	15.10.19										
P1	PRELIMINARY	SB	GG	17.08.18										

Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

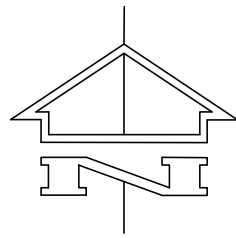
Civil Engineer

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

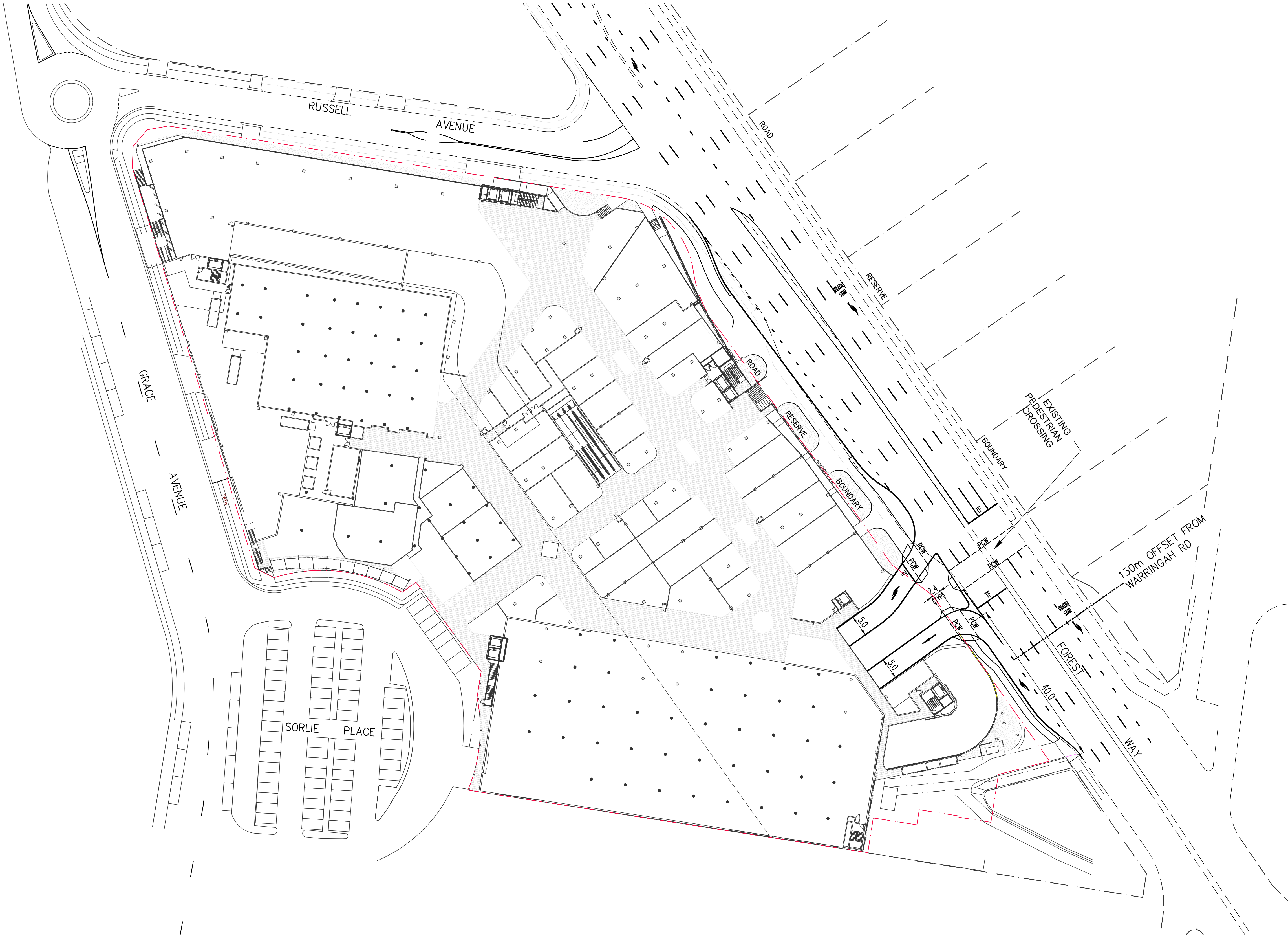
Project
FORESTWAY SHOPPING CENTRE REDEVELOPMENT

Sheet Subject
SITeworks PLAN LEVEL B1

Scale	Drawn	Authorised
A1 1:500	AS	
Job No	Drawing No	Revision
181210	SKC06	P4
Plot File Created: Oct 25, 2019 - 11:54am		



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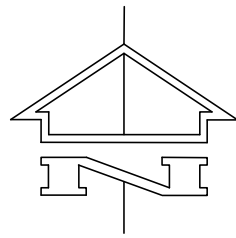
Filename: SKC07.dwg - User: Grog - Plot File Created: Oct 25, 2019 - 11:54am

SCALE 1:500 0 5 10 15 20 25
AT ORIGINAL SIZE

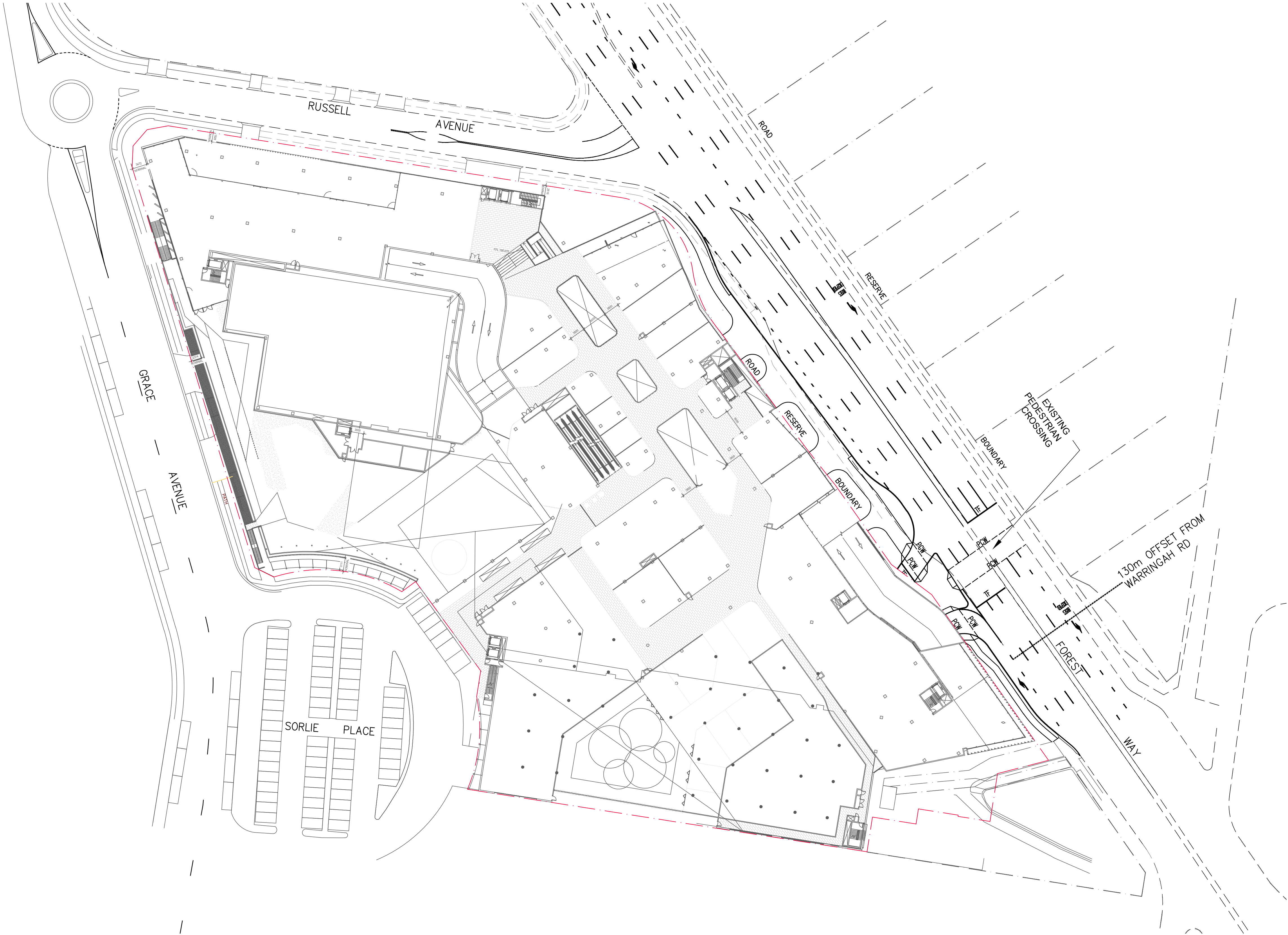
AMENDED DA SUBMISSION

P4 ISSUED FOR DA				SB				GG				25.10.19																			
P3 PRELIMINARY				SB				GG				22.10.19																			
P2 PRELIMINARY				SB				AI				15.10.19																			
P1 PRELIMINARY				SB				GG				17.08.18																			
Rev Description				Eng				Draft				Date				Rev Description				Eng				Draft				Date			

Architect		Civil Engineer		Project		Sheet Subject		Scale : A1		Drawn		Authorised	
THE BUCHAN GROUP		TTW Taylor Thomson Whitting		FORESTWAY SHOPPING CENTRE REDEVELOPMENT		SITEWORKS PLAN LEVEL GF		1:500		AS			
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007		612 9439 7288 48 Chandos Street St Leonards NSW 2065						Job No		Drawing No		Revision	
								181210		SKC07		P4	
								Plot File Created:		Oct 25, 2019 - 11:54am			



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Filename: SKC08.dwg - USER: Ceng - Plot File Created: Oct 25, 2019 - 11:56am

SCALE 1:500 0 5 10 15 20 25
AT ORIGINAL SIZE

AMENDED DA SUBMISSION

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P4	ISSUED FOR DA	SB	GG	25.10.19										
P3	PRELIMINARY	SB	GG	22.10.19										
P2	PRELIMINARY	SB	AI	15.10.19										
P1	PRELIMINARY	SB	GG	17.08.18										

Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

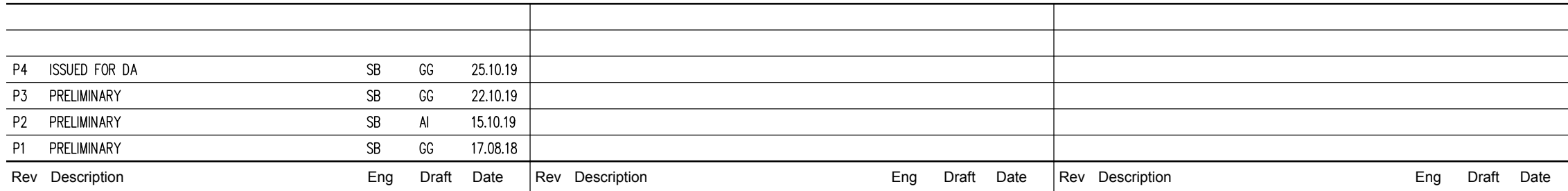
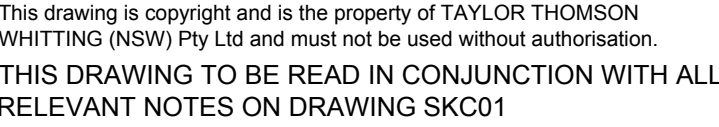
Civil Engineer

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
FORESTWAY SHOPPING CENTRE REDEVELOPMENT

Sheet Subject
SITWORKS PLAN LEVEL 01

Scale	Drawn	Authorised
A1 1:500	AS	
Job No	Drawing No	Revision
181210	SKC08	P4
Plot File Created: Oct 25, 2019 - 11:56am		

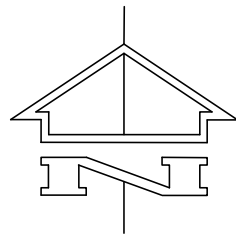


Civil Engineer

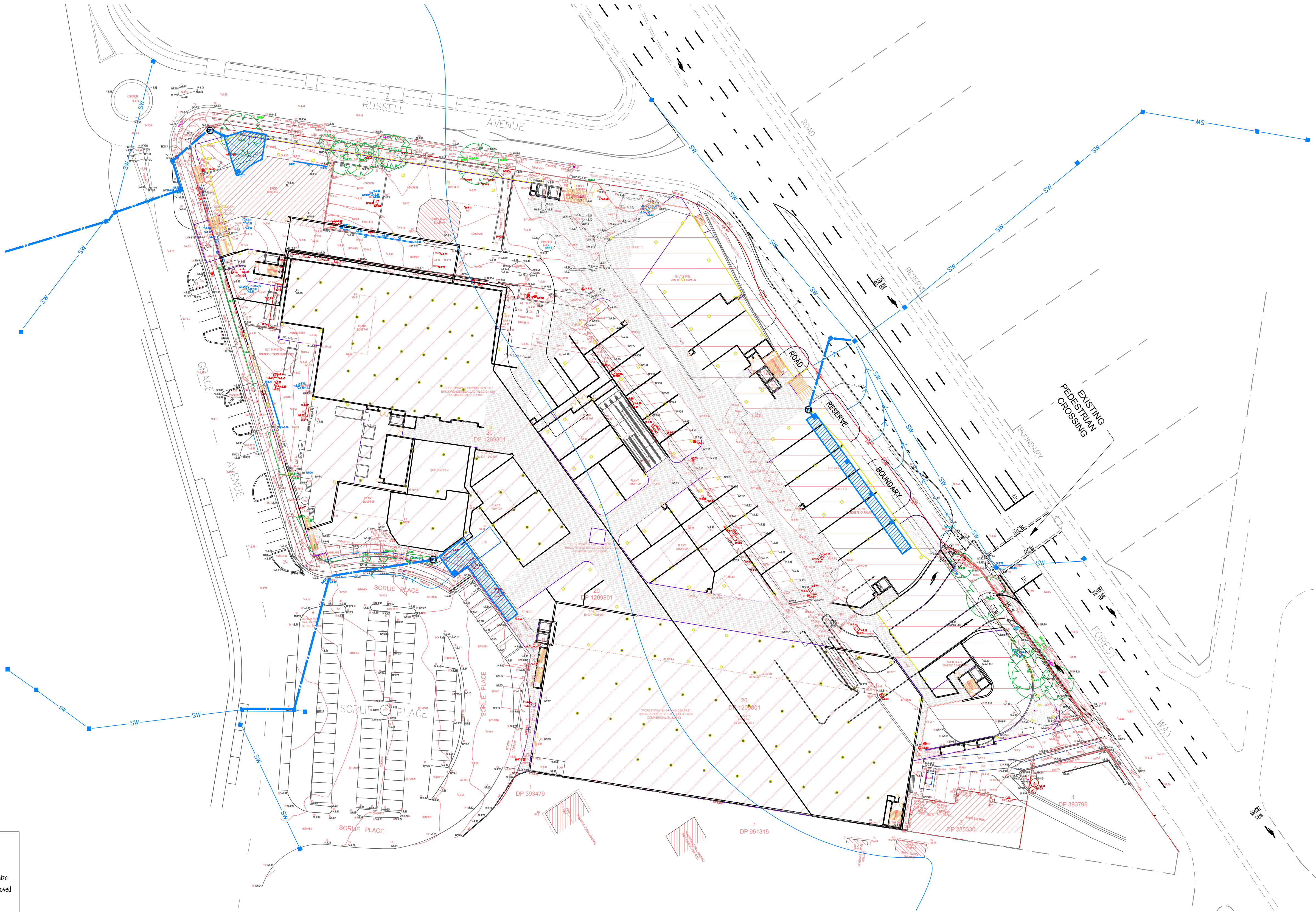
TTW **Taylor
Thomson
Whitting**

612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Scale : A1	Drawn	Authorised
1:500	AS	
Job No	Drawing No	Revision
181210	SKC09	P4
Plot File Created: Oct 25, 2019 - 11:57am		



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SITWORKS LEGEND

- SW — Existing stormwater pipe and pipe size
- X SW X — Existing stormwater pipe to be removed
- [Symbol] — New stormwater pit, flow direction and line with:
 - Invert level upstream
 - Pipe size and class
 - Pipe grade
 - Flow (Litres per second)
 - Invert level downstream
- ← Overland flow path
- [Purple Box] Basement B1 level

IL10.00
600 # 2
1.25%
Q=345 L/s
IL9.65

SITE TOTAL PEAK DISCHARGE

	20%	5%	1%
Undeveloped	354	603	735
Developed	806	1105	1462
Current	350	442	530
Proposed Preliminary Design			

SCALE 1:500 0 5 10 15 20 25 m
AT ORIGINAL SIZE

AMENDED DA SUBMISSION

Filename: SKC01.dwg - USER: Garry - Plot File Created: Oct 25, 2019 - 11:58am

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P4	ISSUED FOR DA	SB	GG	25.10.19										
P3	PRELIMINARY	SB	GG	22.10.19										
P2	PRELIMINARY	SB	AI	15.10.19										
P1	PRELIMINARY	NvdH	AS	06.06.18										

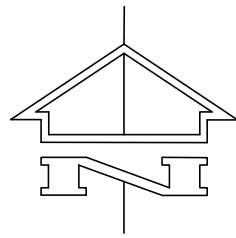
Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

Civil Engineer
TTW Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

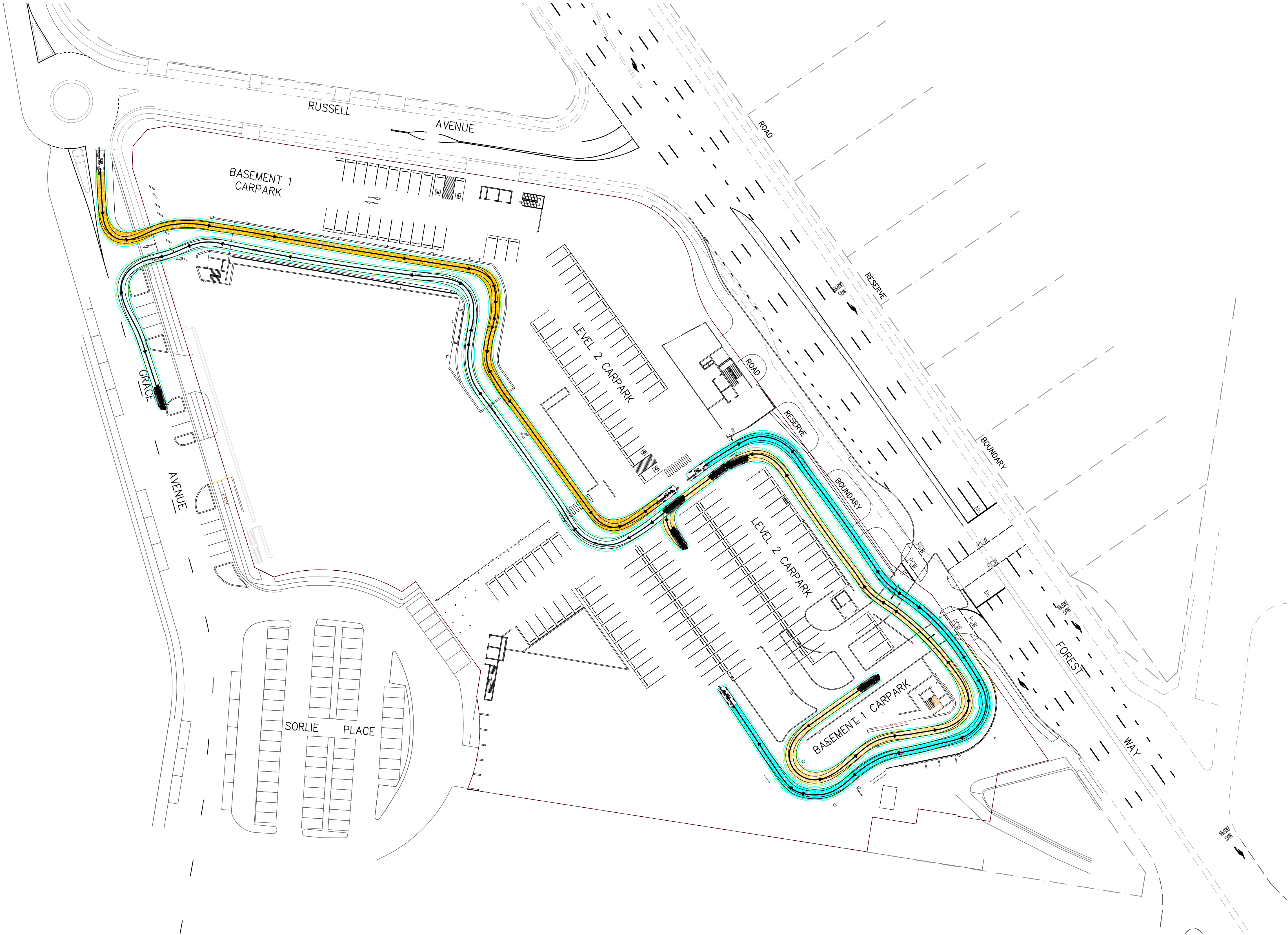
Project
FORESTWAY SHOPPING CENTRE REDEVELOPMENT

Sheet Subject
OVERALL SITWORKS AND STORMWATER PLAN

Scale : A1
1:500
Job No
181210
Plot File Created: Oct 25, 2019 - 11:58am
Drawn
AS
Drawing No
SKC10
Authorised
P4
Revision



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Filename: SKC20.dwg - USER: Grogg - Plot File Created: Oct 25, 2019 - 11:58am

SCALE 1:500 0 5 10 15 20 25
AT ORIGINAL SIZE

AMENDED DA SUBMISSION

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P4	ISSUED FOR DA	SB	GG	25.10.19										
P3	PRELIMINARY	SB	GG	22.10.19										
P2	PRELIMINARY	SB	GG	15.10.19										
P1	PRELIMINARY	SB	GG	17.08.18										

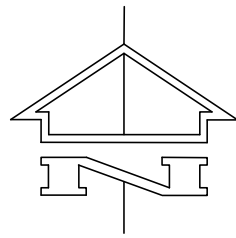
Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

Civil Engineer
TTW Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

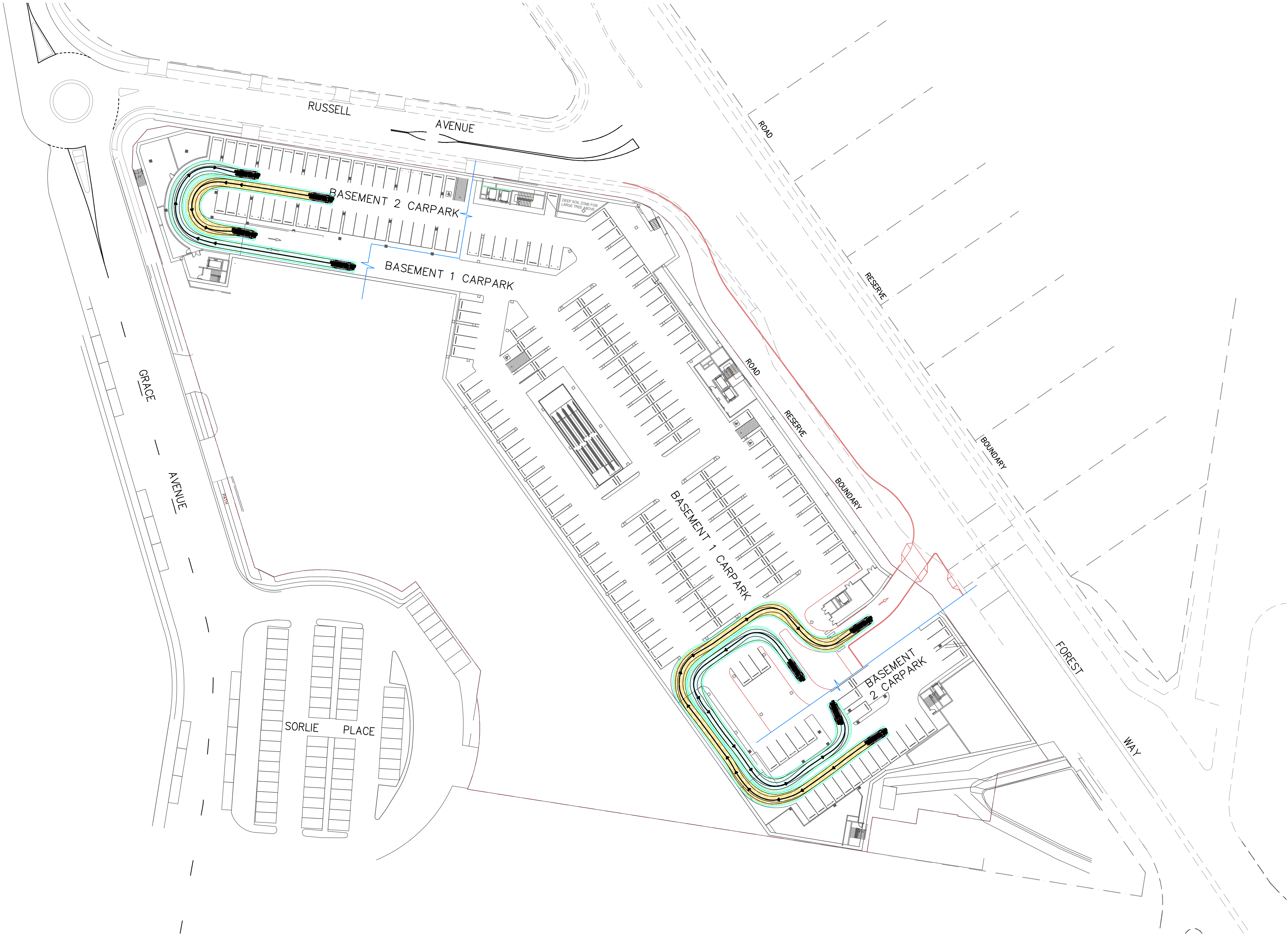
Project
FORESTWAY SHOPPING CENTRE REDEVELOPMENT

Sheet Subject
**B99 TURNING PATHS PLAN
ENTRY RAMPS FROM LEVEL
B1 TO LEVEL 02**

Scale : A1 1:500	Drawn AS	Authorised
Job No 181210	Drawing No SKC20	Revision P4
Plot File Created: Oct 25, 2019 - 11:58am		



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Filename: SKC21.dwg - USER: Gngg - Plot File Created: Oct 25, 2019 - 11:59am

SCALE 1:500 0 5 10 15 20 25
AT ORIGINAL SIZE

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P4	ISSUED FOR DA	SB	GG	25.10.19										
P3	PRELIMINARY	SB	GG	22.10.19										
P2	PRELIMINARY	SB	AI	15.10.19										
P1	PRELIMINARY	SB	GG	17.08.18										

Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

Civil Engineer

TTW **Taylor Thomson Whitting**

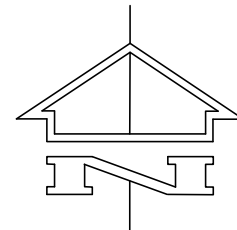
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
FORESTWAY SHOPPING CENTRE REDEVELOPMENT

AMENDED DA SUBMISSION

Sheet Subject
**B99 TURNING PATHS PLAN
RAMPS LEVEL B1 TO B2**

Scale	A1	Drawn	AS	Authorised
Job No	181210	Drawing No	SKC21	Revision
				P4
Plot File Created: Oct 25, 2019 - 11:59am				



EXISTING
PEDESTRIAN
CROSSING

RESERVE

BOUNDARY

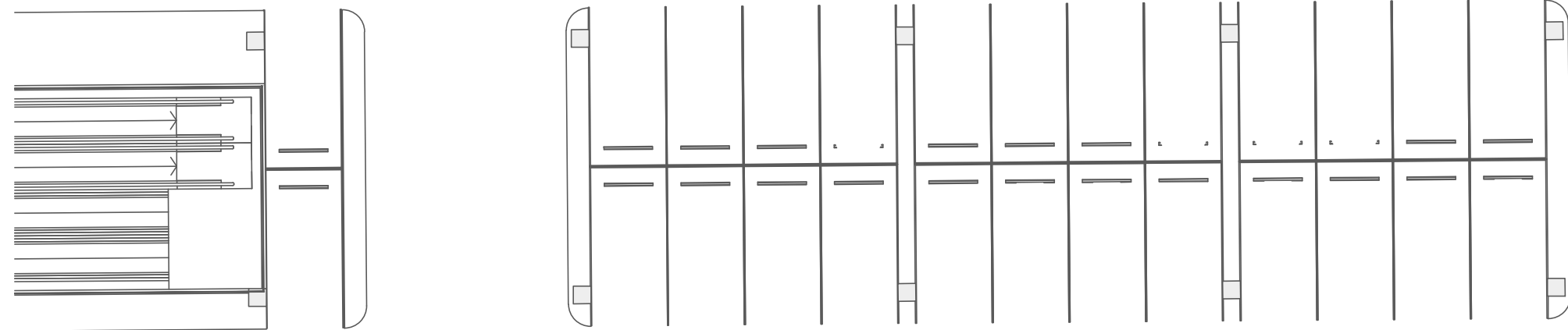
FOREST
WAY

ROAD

RESERVE

BOUNDARY

Filename: SKC22.dwg - USER: Ceng - Plot File Created: Oct 25, 2019 - 12:00pm



SCALE 1:200
AT ORIGINAL SIZE

P6	ISSUED FOR DA	SB	GG	25.10.19					
P5	PRELIMINARY	SB	GG	22.10.19					
P4	PRELIMINARY	SB	AI	15.10.19					
P3	PRELIMINARY	SB	GG	14.09.18					
P2	PRELIMINARY	SB	GG	12.09.18					
P1	PRELIMINARY	SB	GG	17.08.18					
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

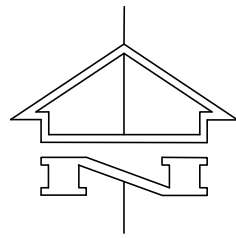
Civil Engineer
TTW **Taylor Thomson Whitting**
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
**FORESTWAY SHOPPING
CENTRE REDEVELOPMENT**

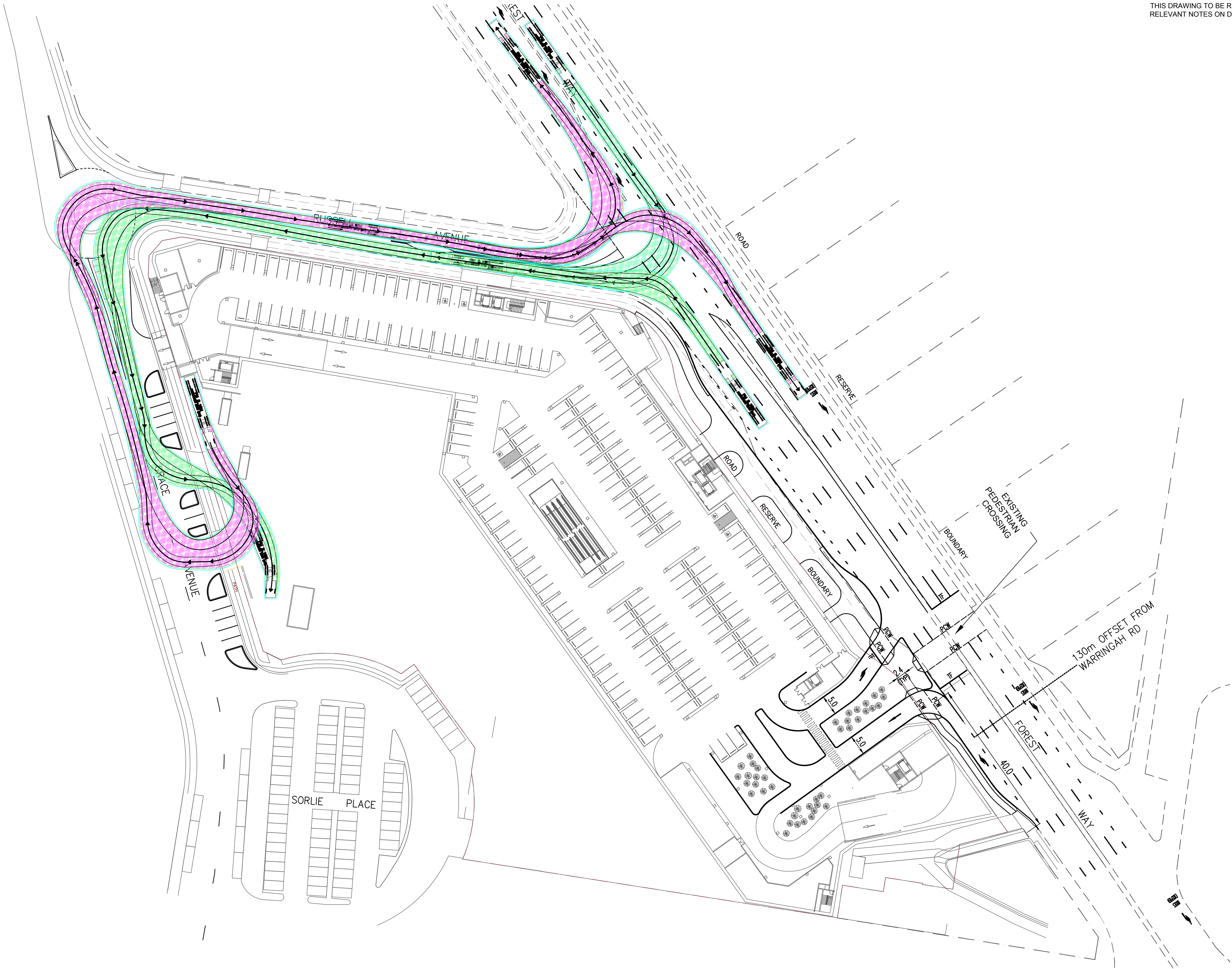
AMENDED DA SUBMISSION

Sheet Subject
**B99 TURNING PATHS PLAN
EXIT RAMPS TO FOREST WAY**

Scale : A1 1:200	Drawn AS	Authorised
Job No 181210	Drawing No SKC22	Revision P6
Plot File Created: Oct 25, 2019 - 12:00pm		



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Filename: SKC23.dwg - USER: Ceng - Plot File Created: Oct 25, 2019 - 12:00pm

SCALE 1:500 0 5 10 15 20 25
AT ORIGINAL SIZE

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P4	ISSUED FOR DA	SB	GG	25.10.19										
P3	PRELIMINARY	SB	GG	22.10.19										
P2	PRELIMINARY	SB	AI	15.10.19										
P1	PRELIMINARY	SB	GG	17.08.18										

Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

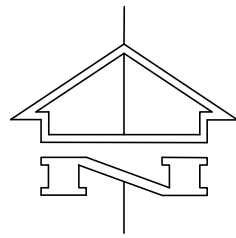
Civil Engineer
TTW Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
FORESTWAY SHOPPING CENTRE REDEVELOPMENT

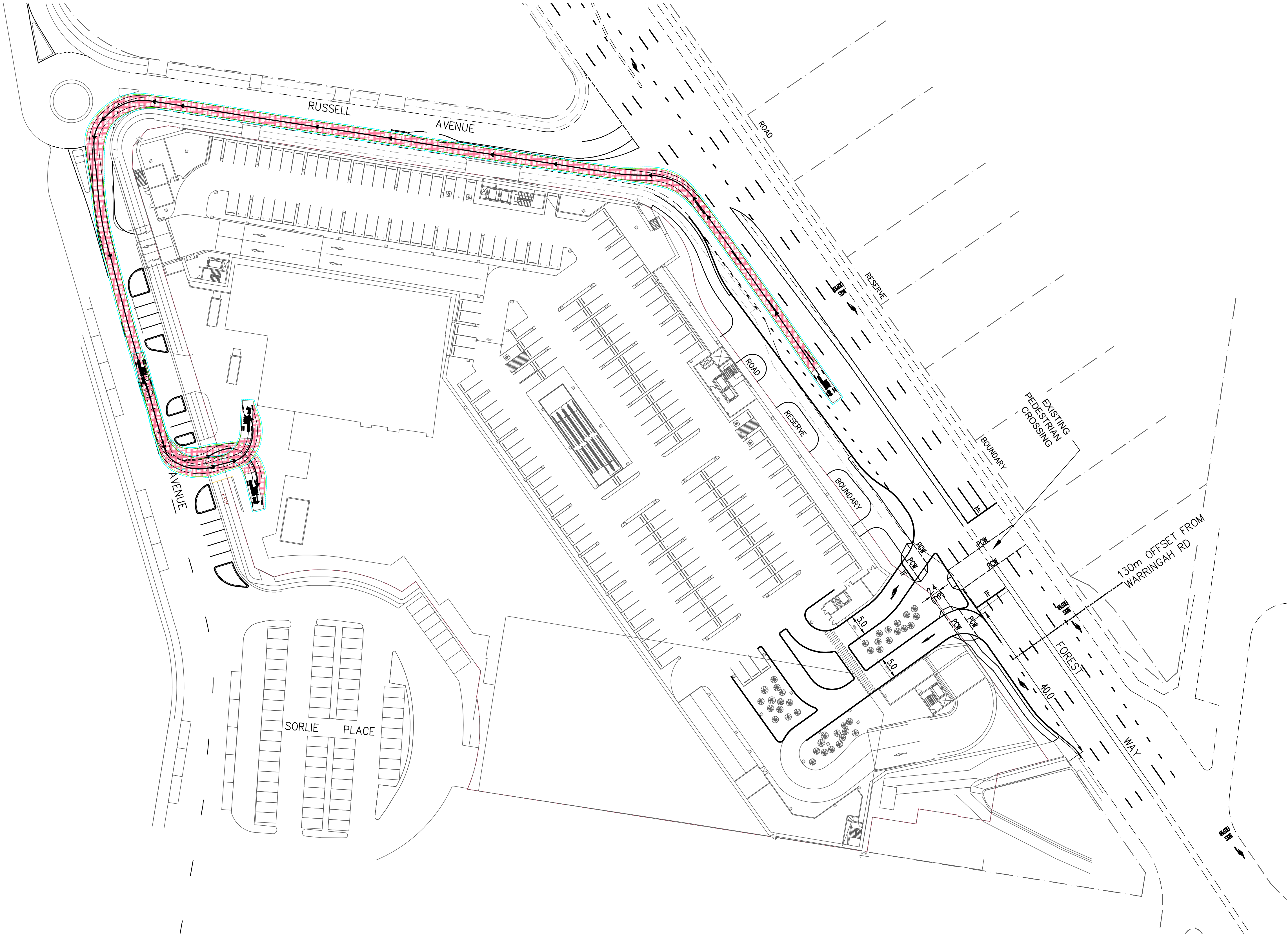
Sheet Subject
19m SEMI TURNING PATHS ENTRY VIA RUSSELL AVENUE

Scale : A1 1:500	Drawn AS	Authorised
Job No 181210	Drawing No SKC23	Revision P4
Plot File Created: Oct 25, 2019 - 12:00pm		

AMENDED DA SUBMISSION



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Filename: SKC24.dwg - USER: Ceng - Plot File Created: Oct 25, 2019 - 12:01pm

SCALE 1:500 0 5 10 15 20 25
AT ORIGINAL SIZE

AMENDED DA SUBMISSION

Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date
P4	ISSUED FOR DA	SB	GG	25.10.19										
P3	PRELIMINARY	SB	GG	22.10.19										
P2	PRELIMINARY	SB	AI	15.10.19										
P1	PRELIMINARY	SB	GG	17.08.18										

Architect
THE BUCHAN GROUP
LEVEL 1, 7 KELLY STREET, ULTIMO, NSW, 2007

Civil Engineer
TTW Taylor Thomson Whitting
612 9439 7288 | 48 Chandos Street St Leonards NSW 2065

Project
FORESTWAY SHOPPING CENTRE REDEVELOPMENT

Sheet Subject
8.8m MRV TURNING PATHS ENTRY VIA RUSSELL AVENUE

Scale : A1 1:500	Drawn AS	Authorised
Job No 181210	Drawing No SKC24	Revision P4
Plot File Created: Oct 25, 2019 - 12:01pm		