# PROPOSED RESIDENTIAL DEVELOPMENT 22-32 PARK AVENUE, WAITARA STORMWATER CONCEPT DESIGN



	DRAWING REGISTER									
SHEET No.	No.	TITLE	REV							
1	SW100	COVER SHEET	Н							
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT 02 PLAN	Н							
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN	Н							
4	SW202	STORMWATER CONCEPT DESIGN - ROOF PLAN	Н							
5	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 1 OF 2	Н							
6	SW301	STORMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 2 OF 2	Н							
7	SW400	EROSION AND SEDIMENT CONTROL - PLAN	Н							
8	SW401	EROSION AND SEDIMENT CONTROL - DETAILS	Н							
9	SW500	STORMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	Н							
10	SW501	STORMWATER CONCEPT DESIGN - FLOOD MITIGATION PLAN	Н							

NOT TO SCALE
COPYRIGHT OF GOOGLE MAP



# PREPARED BY:

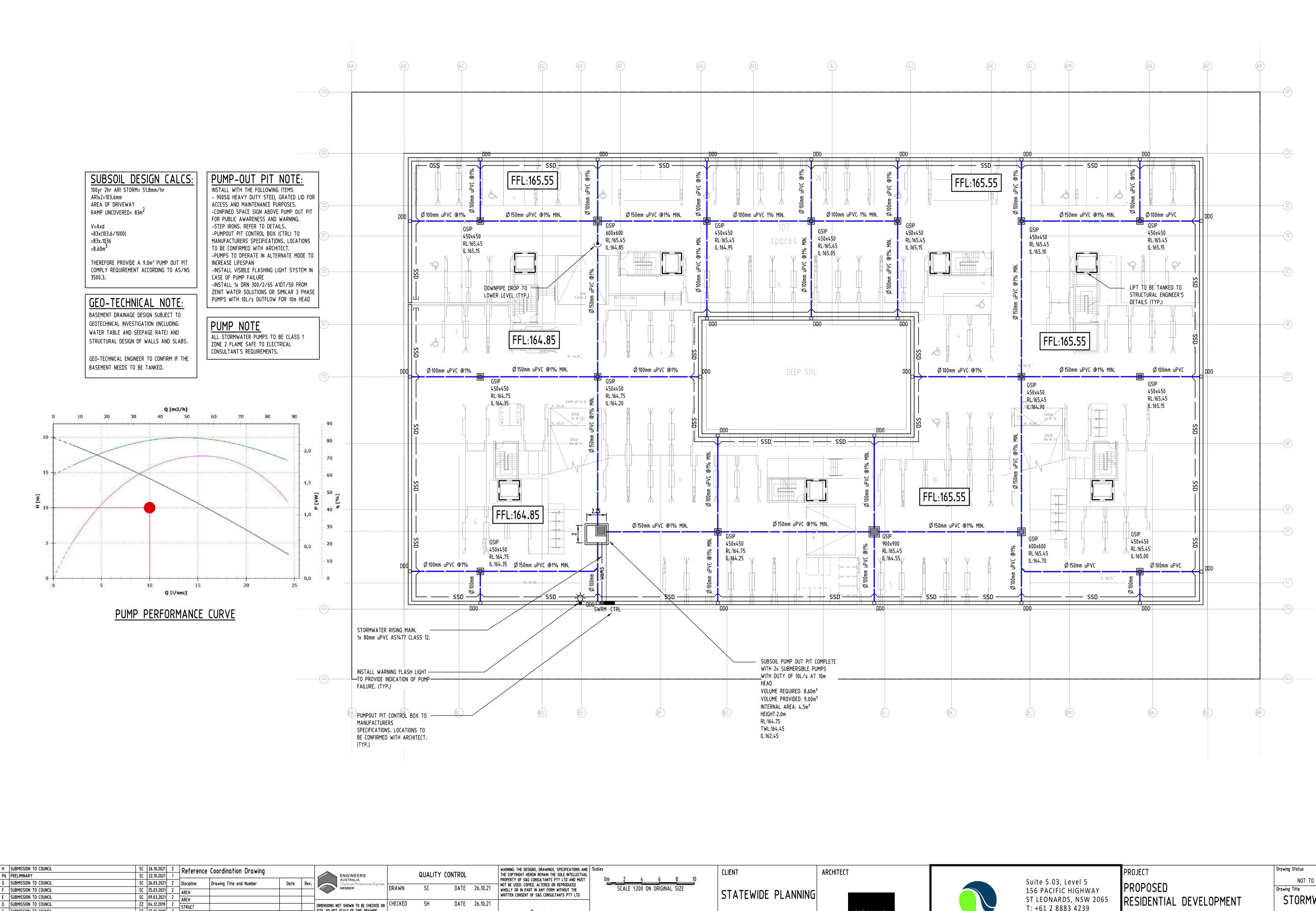
SGC Consulting Engineers
Suite 5.03, Level 5
156 Pacific Highway
St Leonards, NSW 2065
T: +61 2 8883 4239
Email: office@sgce.com.au
Web: www.sgce.com.au

# ARCHITECT:



# CLIENT:

STATEWIDE PLANNING



SUBMISSION TO COUNCIL 5 PRELIMINARY P4 PRELIMINARY Issue Last revision title 4-tender

SUBMISSION TO COUNCIL

Issuer internal sequence and revision history

2-development application

5-construction

FZ 07.12.2018 2 MECH
FZ 03.12.2018 1 ELEC

FZ 08.11.2018 1 HYD

SURVEY 5864100113

by Date Status FIRE

3-construction certificate

6-other

PRIOR TO COMMENCEMENT OF WORK, REPORT ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION
BEFORE PROCEEDING WITH THE WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE SPECIFICATIONS AND OTHER APPROVED SH 28.03.2017 A CONSULTANTS' DRAWINGS.

DIMENSIONS NOT SHOWN TO BE CHECKED ON CHECKED

SITE. DO NOT SCALE OF THIS DRAWING. DATE 26.10.21 POSITIONS OF AUTHORITIES MAINS AND/OR
EXISTING SERVICES ARE TO BE CHECKED DESIGNED DATE 26.10.21 DATE 26.10.21 DATE 26.10.21

STATEWIDE PLANNING



ST LEONARDS, NSW 2065 T: +61 2 8883 4239 Web: www.sgce.com.au

A.B.N. 21 118 222 530

RESIDENTIAL DEVELOPMENT Email: office@sgce.com.au 22-32 PARK AVENUE, WAITARA

2 OF 10

Scale (at original size)

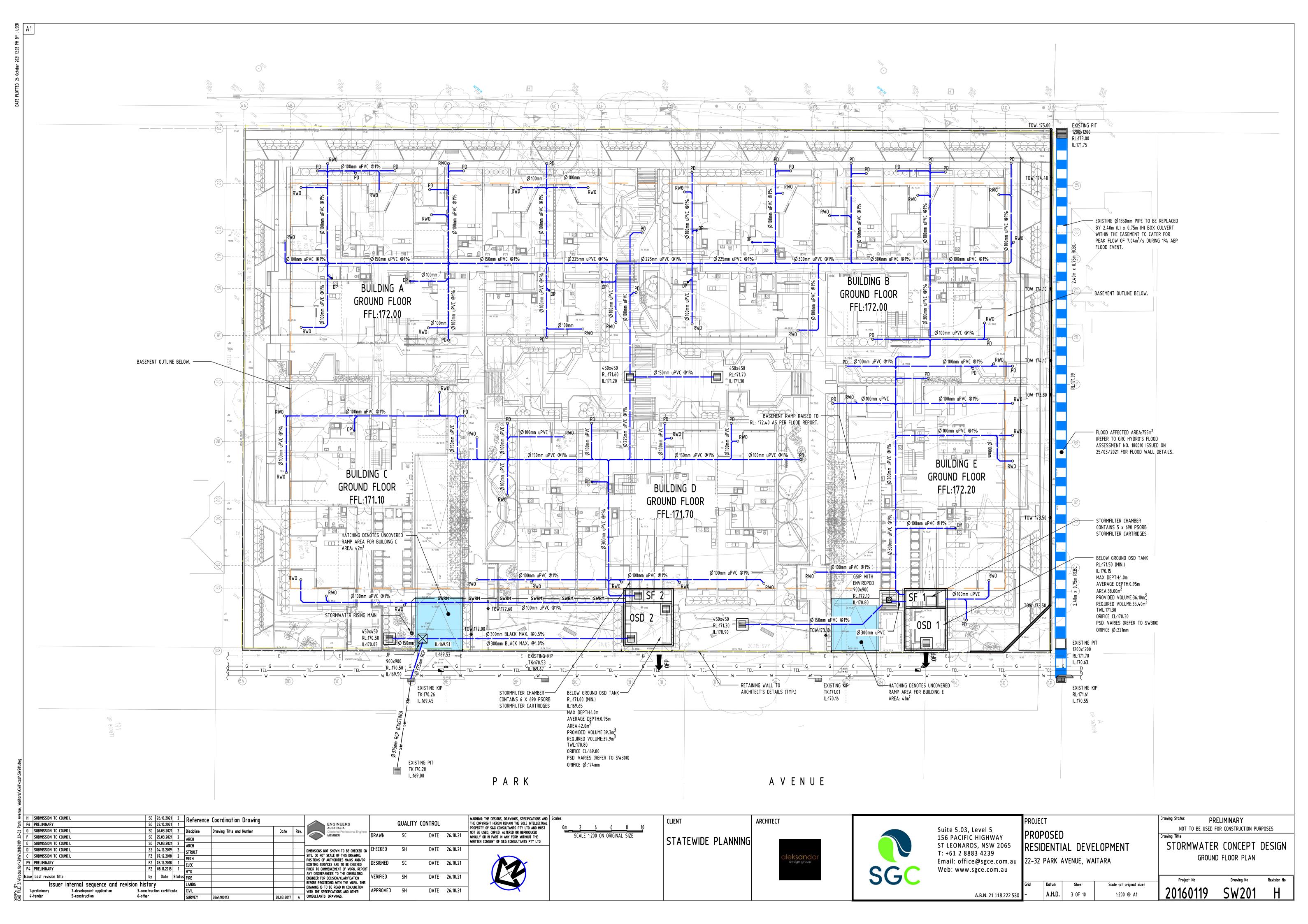
1:200 @ A1

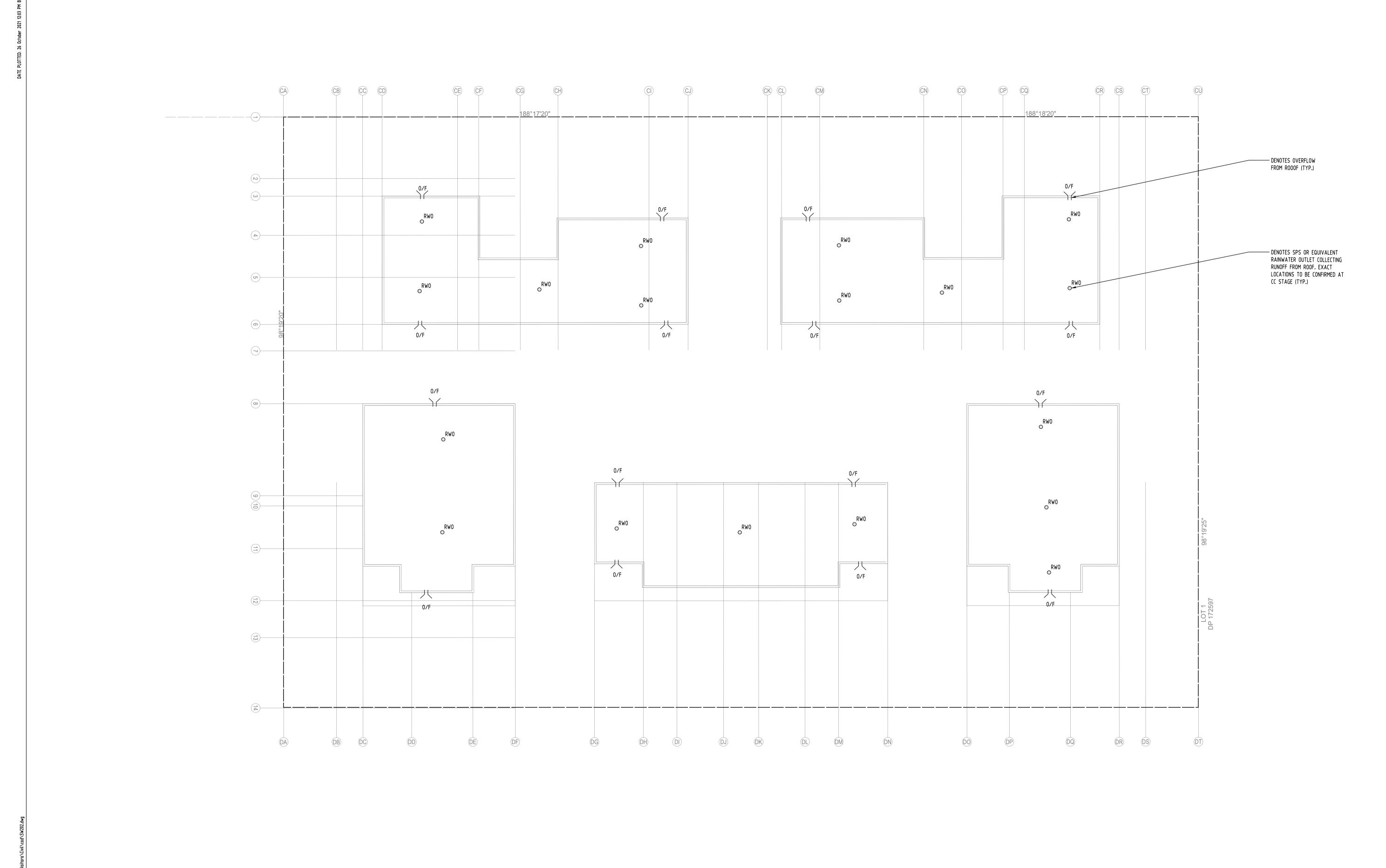
Datum

A.H.D.

PRELIMINARY NOT TO BE USED FOR CONSTRUCTION PURPOSES STORMWATER CONCEPT DESIGN BASEMENT 02 PLAN

20160119 SW200



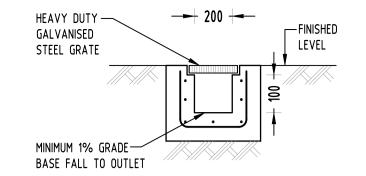


H SUBMISSION TO COUNCIL WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROJECT PRELIMINARY CLIENT ARCHITECT QUALITY CONTROL j P6 PRELIMINARY SC 22.10.2021 1
SC 26.03.2021 2 Discipline
SC 25.03.2021 2 ARCH
SC 09.03.2021 2 ARCH
ZZ 04.12.2019 2 STRUCT
FZ 07.12.2018 2 MECH
FZ 03.12.2018 1 ELEC
HYD
by Date Status
FIRE 0<u>m 2 4 6 8 1</u>0 SCALE 1:200 ON ORIGINAL SIZE PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT TO BE USED FOR CONSTRUCTION PURPOSES Suite 5.03, Level 5 SUBMISSION TO COUNCIL PROPOSED NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD DATE 26.10.21 156 PACIFIC HIGHWAY SUBMISSION TO COUNCIL STATEWIDE PLANNING SUBMISSION TO COUNCIL STORMWATER CONCEPT DESIGN ST LEONARDS, NSW 2065 T: +61 2 8883 4239 RESIDENTIAL DEVELOPMENT DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING.
POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK.

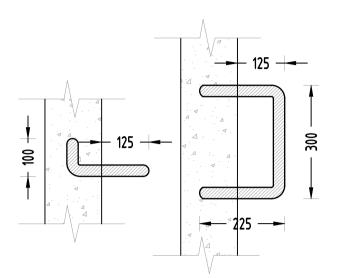
POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED PRIOR TO COMMENCEMENT OF WORK. SUBMISSION TO COUNCIL SUBMISSION TO COUNCIL ROOF PLAN Email: office@sgce.com.au 22-32 PARK AVENUE, WAITARA P5 PRELIMINARY
P4 PRELIMINARY
Issue Last revision title DATE 26.10.21 Web: www.sgce.com.au ANY DISCREPANCIES TO THE CONSULTING
ENGINEER FOR DECISION/CLARIFICATION
BEFORE PROCEEDING WITH THE WORK. THIS DATE 26.10.21 LANDS
CIVIL
SURVEY 5864100113 Issuer internal sequence and revision history Datum Scale (at original size) DRAWING IS TO BE READ IN CONJUNCTION
WITH THE SPECIFICATIONS AND OTHER
CONSULTANTS' DRAWINGS.

APPROVED SH
CONSULTANTS' DRAWINGS. 20160119 3-construction certificate DATE 26.10.21 1-preliminary 4-tender 2-development application A.H.D. 4 OF 10 1:200 @ A1 A.B.N. 21 118 222 530 6-other 5-construction

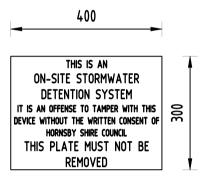




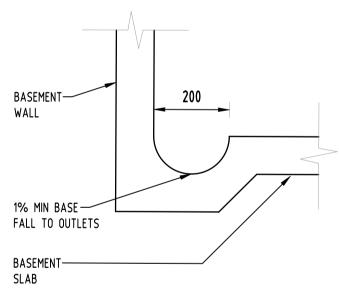
## GRATED TRENCH DRAIN NOT TO SCALE



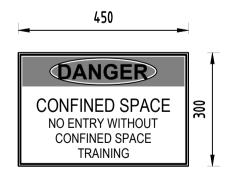
STEP IRONS NOT TO SCALE



OSD SIGN NOT TO SCALE

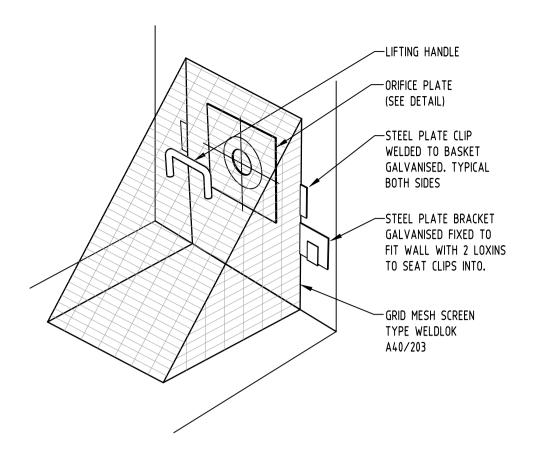


DISH DRAIN NOT TO SCALE

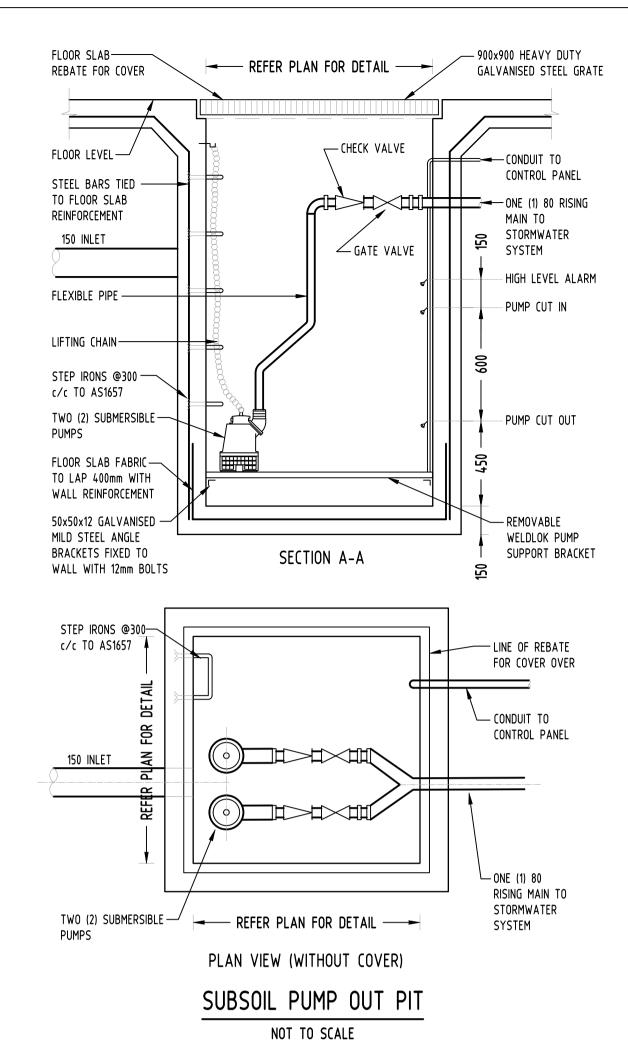


DETAIL NOT TO SCALE

5-construction



DEBRIS SCREEN NOT TO SCALE



#### DRAINAGE NOTES:

ALL PIPES TO BE LAID ON 75mm SAND BED WITH THE BARRELS FULLY SUPPORTED

100mm AND 150mm DIAMETER PIPES TO BE LAID ON MINIMUM 1% GRADE

MINIMUM DEPTH OF COVER FOR PIPES NOT SUBJECT TO VEHICULAR LOADING TO BE 300mm

ALL DRAINAGE PIPES LAID UNDER PAVEMENT SHALL BE REINFORCED CONCRETE WITH RUBBER RING

BACKFILL TRENCHES WITH COMPACTED SAND OR APPROVED AGGREGATE MATERIAL

HEAVY DUTY GRATES AND COVERS ARE TO BE PROVIDED IN TRAFFICABLE AREAS PIT GRATE TO BE TYPE WELDLOK OR APPROVED EQUIVALENT

ALL PITS SHALL BE PROVIDED WITH A LOCKING CLIP

ALL PITS SHALL BE MAINTAINED REGULARLY

TOP OF BENCHING SHALL BE TO THE HALF OF THE OUTLET PIPE DIAMETER

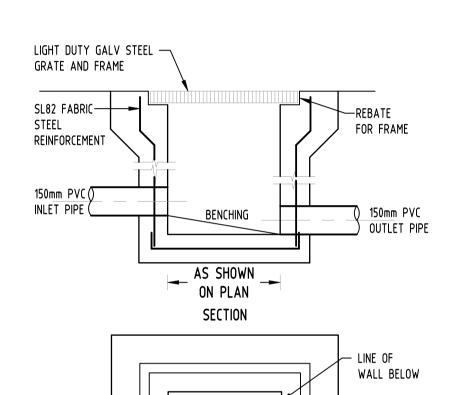
Ø100 SUBSOIL DRAINAGE PIPE 3000mm LONG WRAPPED IN FABRIC SOCK TO BE PROVIDED ADJACENT TO INLET PIPES

COMPRESSIVE STRENGTH f'c FOR CAST IN SITU CONCRETE TO BE A MINIMUM OF 20MPa AT 28

ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

ALL TRENCH GRATES PROVIDED SHALL HAVE A MINIMUM CLEAR WIDTH OF 200mm

STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL



150mm PVC

OUTLET PIPE

LINE OF REBATE OVER FOR FRAME



150mm PVC

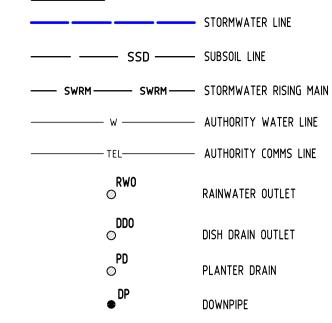
OUTLET PIPE

STORMWATER PIT NOT TO SCALE

# POST-DEVELOPMENT OSD REQUIREMENTS:

	PRE-DEV IMPERVIOUS (%) (TOTAL SITE)	POST-DEV IMPERVIOUS (%) (TOTAL SITE)	STORM (YR)	PRE-DEV FLOW (m3/s)	POST-DEV FLOW (m3/S)	OSD 1 PIPE OUTFLOW (m3/s)	OSD 2 PIPE OUTFLOW (m3/s)	BYPASSING FLOW (m3/s)	TOTAL PSD (m3/s)	OSD VOLUME (m3) FOR 20YR STORM STORAGE
			5	0.180	0.236	0.083	0.052	0.010	0.180	OSD 1: 35.40
6389	43.76	100	20	0.263	0.310	0.102	0.064	0.014	0.180	OSD 2: 39.30

## LEGEND:



#### STORMWATER NOTES:

SITES LOCATED IN HORNSBY SHIRE COUNCIL.

ON-SITE DETENTION (OSD) IS REQUIRED. THE OSD HAS BEEN DESIGNED USING A PRE. VS POST-DEVELOPMENT ANALYSIS USING DRAINS. ACCORDING TO COUNCIL'S "ON-SITE DETENTION SPECIFICATION (2009)", THE 20YR ARI EVENT MUST BE LIMITED TO THE PRE-DEV. 5YR ARI EVENT.

A WATER SENSITIVE URBAN DESIGN (WSUD) IS

REQUIRED. COUNCIL'S QUALITY TARGETS ARE: - TSS = 80%

> - TN = 60% - TP = 45%

THE PROPOSED DEVELOPMENT WILL DISCHARGE INTO COUNCIL'S EXISTING STORMWATER INFRASTRUCTURE SYSTEM WITHIN PARK AVENUE.

THE PROPOSED DEVELOPMENT IS FLOOD AFFECTED. THE FLOOD AFFECTED AREA IS EXCLUDED FROM THE CALCULATION.

SITE AREA =  $6979 \text{ m}^2$ FLOOD AFFECTED AREA = 755 m<sup>2</sup> BYPASSING AREA =  $345 \text{ m}^2$  (4.9% OF TOTAL SITE AREA)

SERVICES SHOWN ON PLAN ARE INDICATIVE, EXACT DEPTH AND LOCATION TO BE CONFIRMED ONSITE. CONTRACTOR TO CARRY OUT DIAL BEFORE YOU DIG APPLICATION AND ENGAGE A REGISTERED SURVEYOR TO PEG OUT ALL EXISTING SERVICES PRIOR TO ANY WORK COMMENCING ONSITE.

אָר פון														
{	H SUBMISSION TO COUNCIL	SC 2	26.10.2021	2	Reference	Coordination Drawing								WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND
<b>[</b>	P6 PRELIMINARY	SC 2	22.10.2021	1	- Kererence	- Coordination Brawning	1		ENGINEERS		QUALITY	CONTROL		THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL   PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST
7	G SUBMISSION TO COUNCIL	SC 2	26.03.2021	2	Discipline	Drawing Title and Number	Date	Rev.	AUSTRALIA Chartered Professional Engineer					NOT BE USED, COPIED, ALTERED OR REPRODUCED
; [	F SUBMISSION TO COUNCIL	SC 2	25.03.2021	2	ARCH	-			MEMBER	DRAWN	SC	DATE	26.10.21	WHOLLY OR IN PART IN ANY FORM WITHOUT THE
•	E SUBMISSION TO COUNCIL	SC 0	09.03.2021	2	ARCH									WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD
3 [	D SUBMISSION TO COUNCIL	ZZ 0	04.12.2019	2	STRUCT				DIMENSIONS NOT SHOWN TO BE CHECKED ON	CHECKED	SH	DATE	26.10.21	
≨ [	C SUBMISSION TO COUNCIL	FZ 0	07.12.2018	2	MECH		+		SITE. DO NOT SCALE OF THIS DRAWING.					
[ [	P5 PRELIMINARY	FZ 0	03.12.2018	1	ELEC		+		POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED	DESIGNED	SC	DATE	26.10.21	
	P4 PRELIMINARY	FZ 0	08.11.2018	1	HYD	+			PRIOR TO COMMENCEMENT OF WORK. REPORT					
<u> </u>	Issue Last revision title	bv	Date	Statu	s FIRE				ANY DISCREPANCIES TO THE CONSULTING  ENGINEER FOR DECISION/CLARIFICATION	VERIFIED	SH	DATE	26.10.21	
֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓		-7			LANDS				BEFORE PROCEEDING WITH THE WORK. THIS	* = : * : : : : : : : : : : : : : : : :	3	57112	20110121	
ا ت	Issuer internal sequence and revision hist	•							DRAWING IS TO BE READ IN CONJUNCTION	APPROVED	SH	DATE	26.10.21	
=	1-preliminary 2-development application 3-cons		n certifica	lie	CIVIL				WITH THE SPECIFICATIONS AND OTHER	AFFROVED	311	DATE	20.10.21	

CLIENT ARCHITECT STATEWIDE PLANNING



Suite 5.03, Level 5 156 PACIFIC HIGHWAY ST LEONARDS, NSW 2065 T: +61 2 8883 4239 Web: www.sgce.com.au

A.B.N. 21 118 222 530

PROJECT PROPOSED RESIDENTIAL DEVELOPMENT Email: office@sgce.com.au 22-32 PARK AVENUE, WAITARA

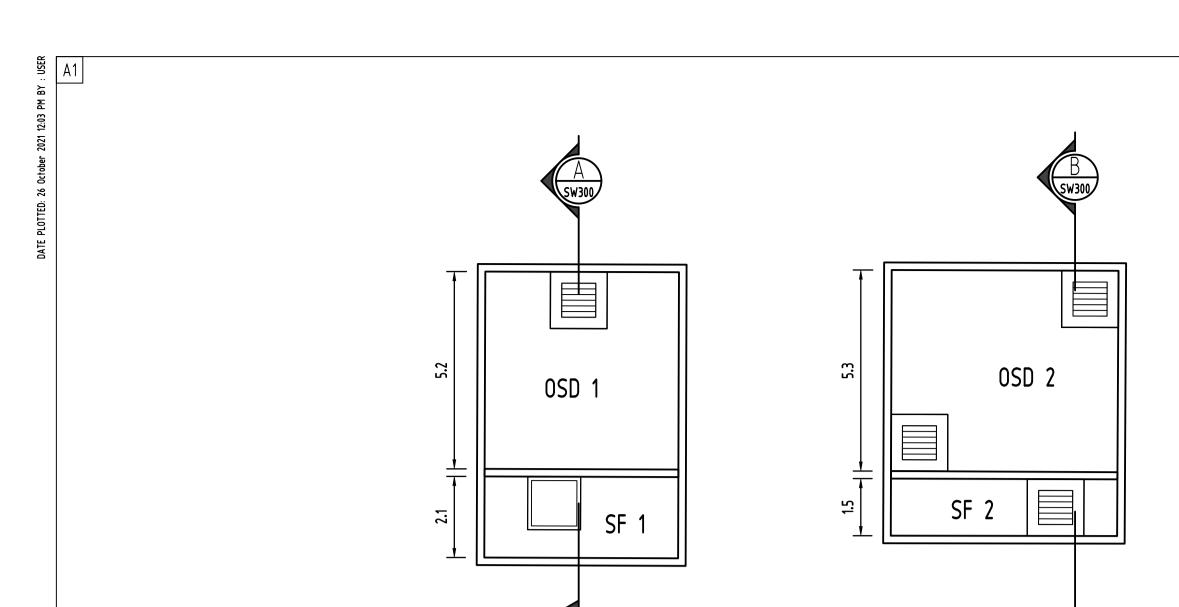
5 OF 10

A.H.D.

NOT	TO BE U	SED FOI	R CONSTRI	JCTION PL	JRPOSES
Drawing Title					
STORI	MWA	TER	CON	EPT	DESIGN
		DETA	ILS SHE	ET	
		SHEE	T 1 0F	2	

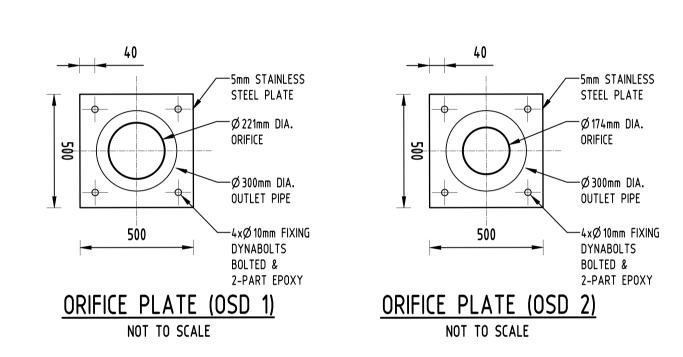
PRELIMINARY

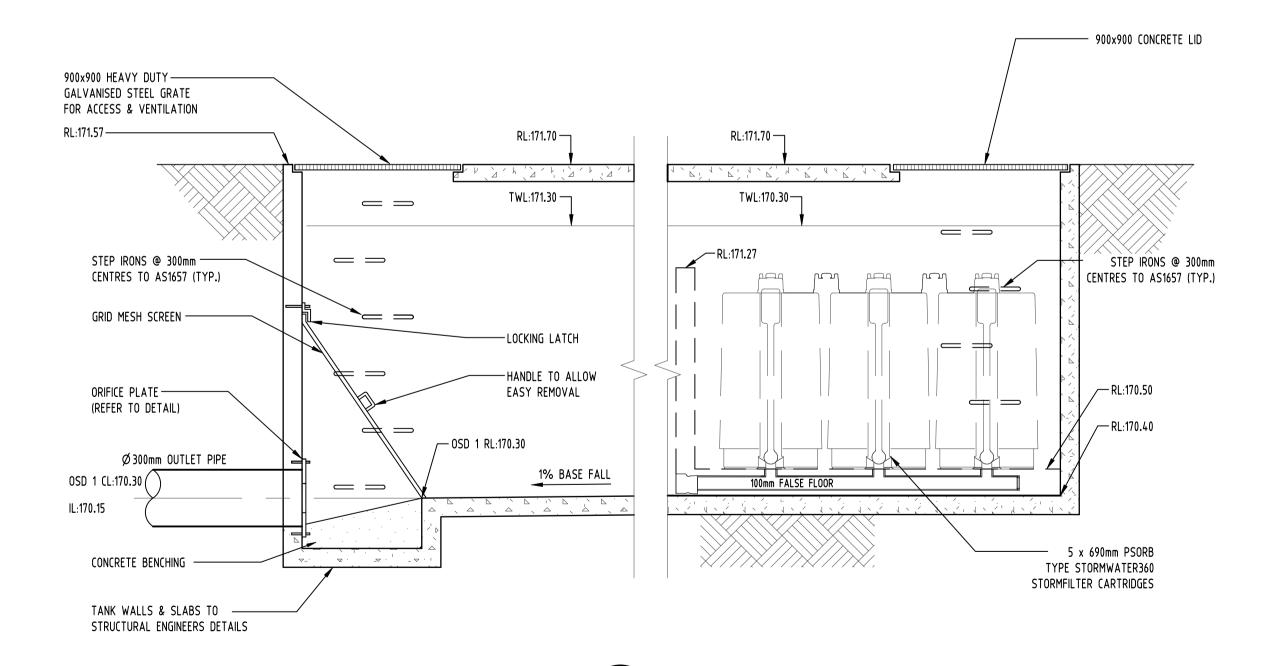
- /-ki-i1 -i\	Project No	Drawing No	Revision No
e (at original size) OT TO SCALE	20160119	SW300	Н



OSD 1 PLAN

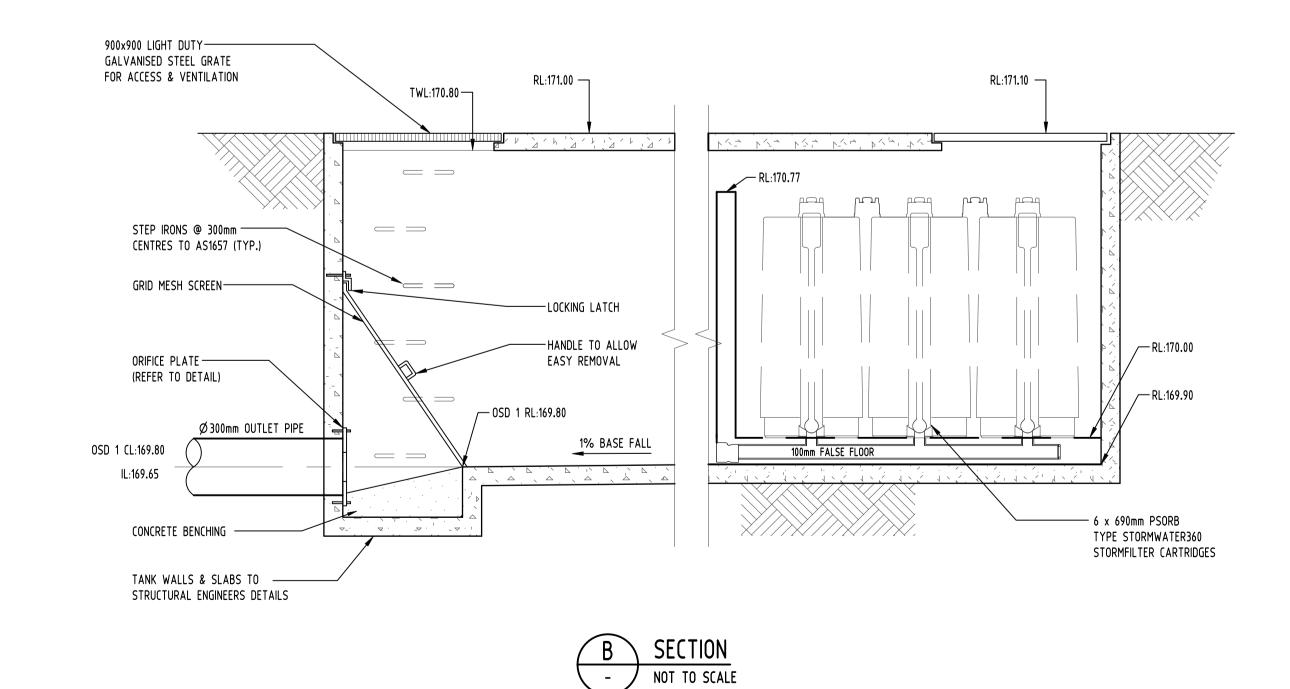
NOT TO SCALE





OSD 2 PLAN

NOT TO SCALE



ᅙ														
Ā	H SUBMISSION TO COUNCIL	SC 26.10.2021	2	Reference	Coordination Drawing			•					WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND SC	cales
Park	P6 PRELIMINARY	SC 22.10.2021	1					ENGINEERS		QUALITY C	ONTROL		THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST	
32	G SUBMISSION TO COUNCIL	SC 26.03.2021	2	Discipline	Drawing Title and Number	Date	Rev.	AUSTRALIA Chartered Professional Engineer					NOT BE USED, COPIED, ALTERED OR REPRODUCED	
22-		SC 25.03.2021	2	ARCH	1		+	MEMBER	DRAWN	SC	DATE	26.10.21	WHOLLY OR IN PART IN ANY FORM WITHOUT THE	
313	E SUBMISSION TO COUNCIL	SC 09.03.2021	2	ARCH			1						WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD	
,20160119	D SUBMISSION TO COUNCIL	ZZ 04.12.2019	2	STRUCT	+		+	I DIMENSIONS NOT SHOWN TO BE CHECKED ON	CHECKED	SH	DATE	26.10.21		
2016\;	C SUBMISSION TO COUNCIL	FZ 07.12.2018	2				+	SITE. DO NOT SCALE OF THIS DRAWING.						
2	P5 PRELIMINARY	FZ 03.12.2018	1	MECH			+	POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED	DESIGNED	SC	DATE	26.10.21	1	
÷	P4 PRELIMINARY	FZ 08.11.2018		ELEC			_	PRIOR TO COMMENCEMENT OF WORK, REPORT		30	5/112	20110121		
ij,				FIRE			-	ANY DISCREPANCIES TO THE CONSULTING	VERIFIED	SH	DATE	26.10.21	-	
جَ	Issue Last revision title		Siulus					ENGINEER FOR DECISION/CLARIFICATION  BEFORE PROCEEDING WITH THE WORK, THIS	VLKII ILD	311	DATE	20.10.21		
	Issuer internal sequence and revision hist	วาง		LANDS				DRAWING IS TO BE DEAD IN CONTINCTION					_	
₽	' '	ruction certifico	ate	CIVIL				WITH THE SPECIFICATIONS AND OTHER	APPROVED	SH	DATE	26.10.21		
XREF's: \$3 CAD FILE:	4-tender 5-construction 6-other			SURVEY				CONSULTANTS' DRAWINGS.						

STATEWIDE PLANNING

aleksanda
design group

ARCHITECT

CLIENT

Suite 5.03, Level 5
156 PACIFIC HIGHWAY
ST LEONARDS, NSW 2065
T: +61 2 8883 4239
Email: office@sgce.com.
Web: www.sgce.com.au

Suite 5.03, Level 5
156 PACIFIC HIGHWAY
ST LEONARDS, NSW 2065
T: +61 2 8883 4239
Email: office@sgce.com.au
Web: www.sgce.com.au
Web: www.sgce.com.au

A.B.N. 21 118 222 530

Datum

A.H.D.

6 OF 10

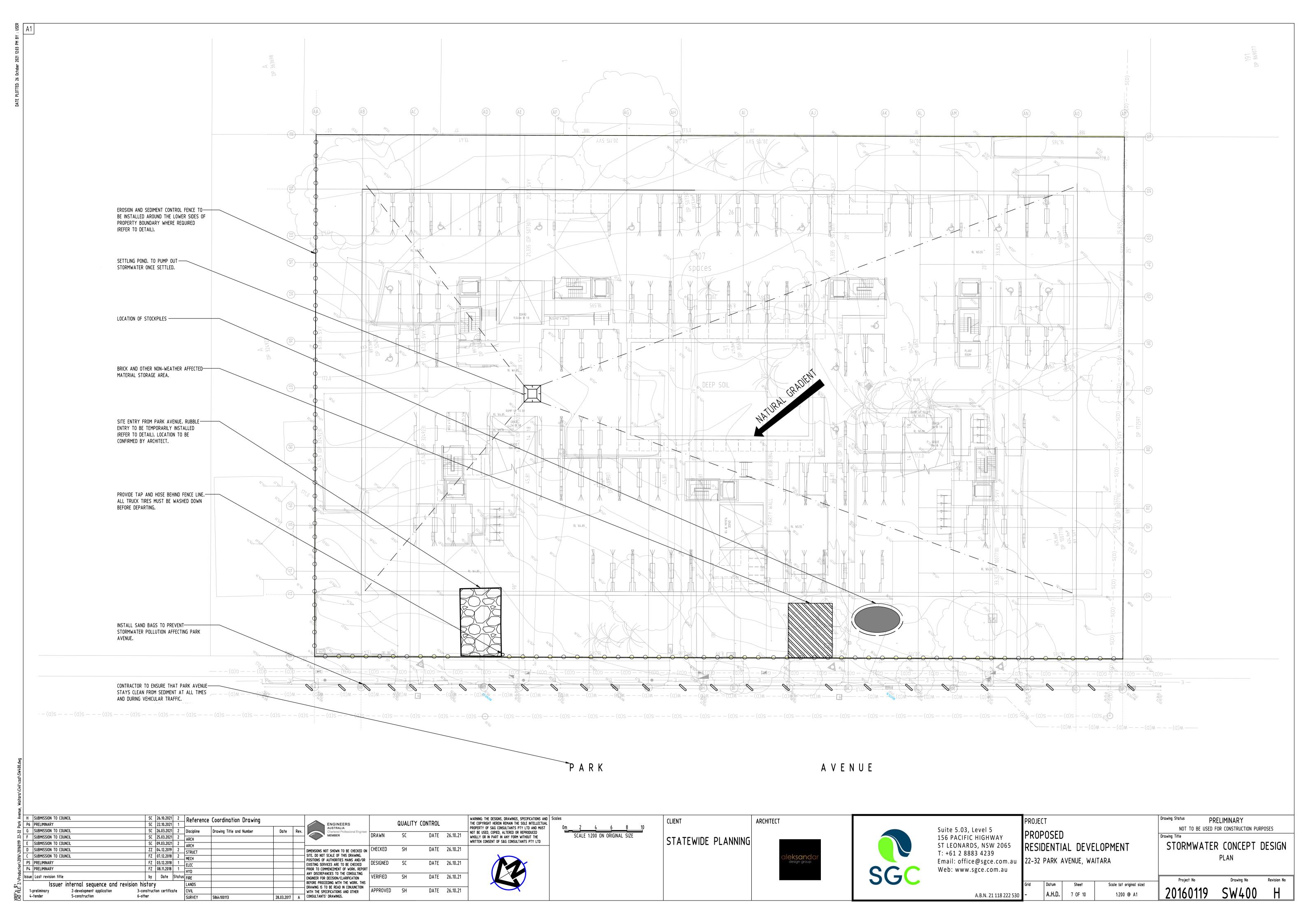
	Drawing Title		
L DEVELOPMENT	STORMWATER	CONCEPT	DES
/ENUE, WAITARA	DETA	LS SHEET	
renoe, watawa	SHEE	T 2 OF 2	
	Project No	Drawing No	Revi

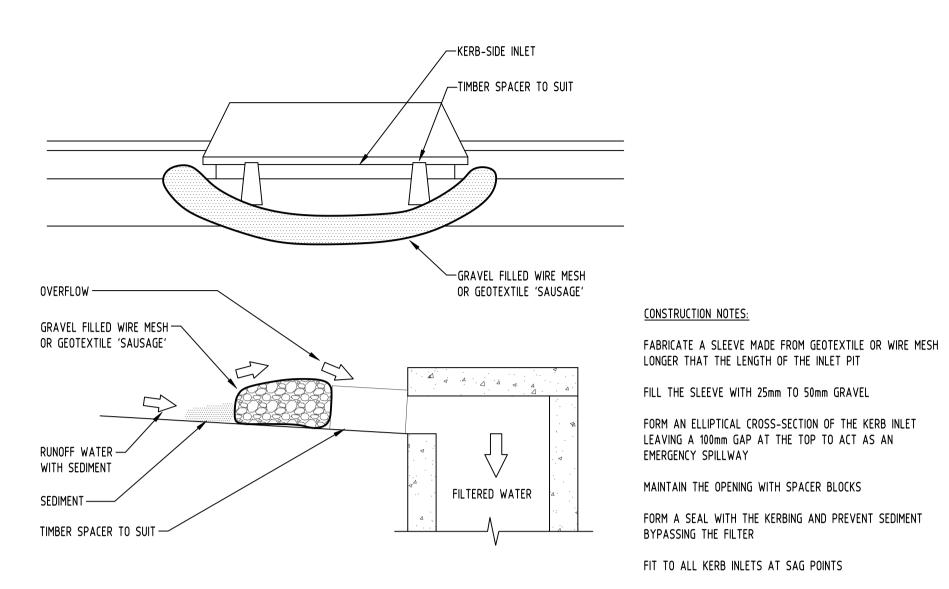
 Scale (at original size)
 Project No
 Drawing No
 Revision

 NOT TO SCALE
 20160119
 SW301
 H

PRELIMINARY

NOT TO BE USED FOR CONSTRUCTION PURPOSES





GRAVEL INLET FILTER (SAUSAGE)

NOT TO SCALE

## **EROSION & SEDIMENTATION CONTROL NOTES**

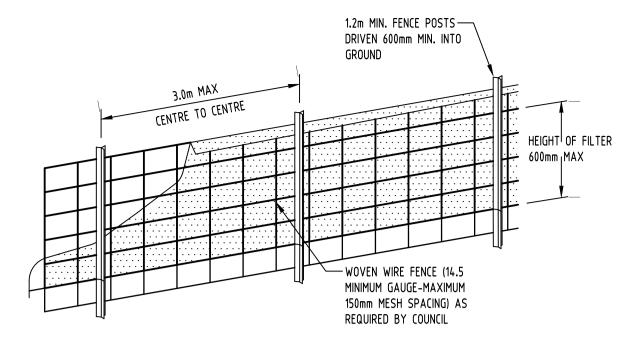
- 1. CONTRACTOR SHALL PROVIDE SEDIMENT FENCING MATERIAL DURING CONSTRUCTION TO THE LOW SIDE OF THE WORKS. TIE SEDIMENT FENCING MATERIAL TO CYCLONE WIRE SECURITY FENCE. SEDIMENT CONTROL FABRIC SHALL BE AN APPROVED MATERIAL (EG. HUMES PROPEX SILT STOP) STANDING 300mm ABOVE GROUND & EXTENDING 150mm BELOW GROUND.
- 2. EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- 3. NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- 4. GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- 5. CONSTRUCTION ENTRY/EXIT SHALL BE VIA THE LOCATION NOTED ON THE DRAWING. CONTRACTOR SHALL ENSURE ALL DROPPABLE SOIL & SEDIMENT IS REMOVED PRIOR TO CONSTRUCTION TRAFFIC EXITING SITE. CONTRACTOR SHALL ENSURE ALL CONSTRUCTION TRAFFIC ENTERING & LEAVING THE SITE DO SO IN A FORWARD DIRECTION.

### GENERAL NOTES

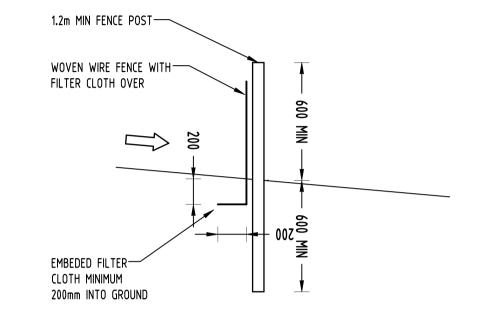
- 1. THIS PLAN IS A CONCEPT PLAN ONLY FOR STORMWATER DISPOSAL & EROSION CONTROL. IT IS NOT SUITABLE FOR CONSTRUCTION. THIS PLAN SHOULD BE ADAPTED BY THE BUILDER DURING DEMOLITION, EXCAVATION & CONSTRUCTION PHASES TO ENSURE ADEQUATE PERFORMANCE.
- 2. ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

### CLAY SOILS

- A SYSTEM SHALL BE INSTALLED TO EITHER:
- 1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
- 2. TREAT THE STORMWATER RUNOFF WITH SUSPENDED SOLIDS SO THE DISCHARGE WATER QUALITY TO COUNCIL STORMWATER DRAINAGE SYSTEM HAS A MAXIMUM CONCENTRATION OF SUSPENDED SOLIDS THAT DOES NOT EXCEED 50 MILLIGRAMS PER LITRE IN ACCORDANCE WITH THE PROTECTION OF THE ENVIRONMENT OPERATION ACT (POEO 1997) AND SHALL BE APPROVED BY LOCAL COUNCIL



DIAGRAMMATIC VIEW

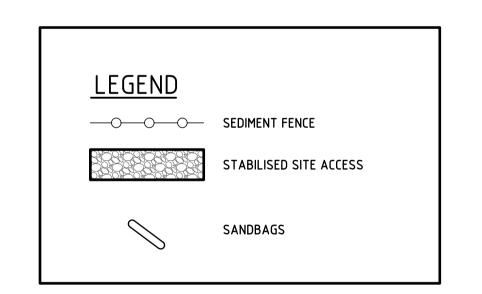


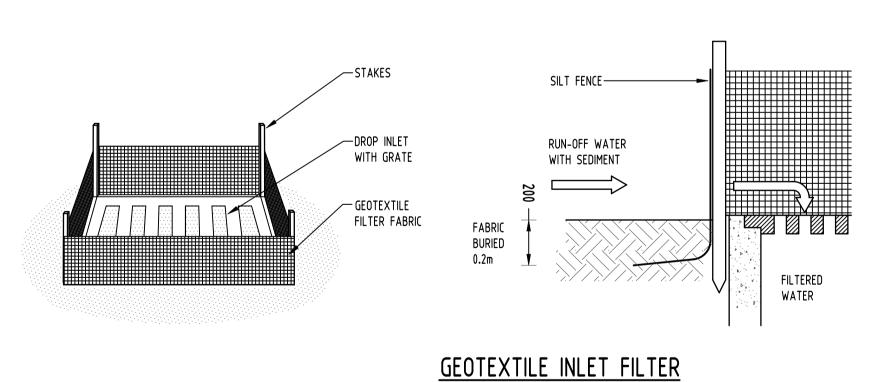
TYPICAL SECTION

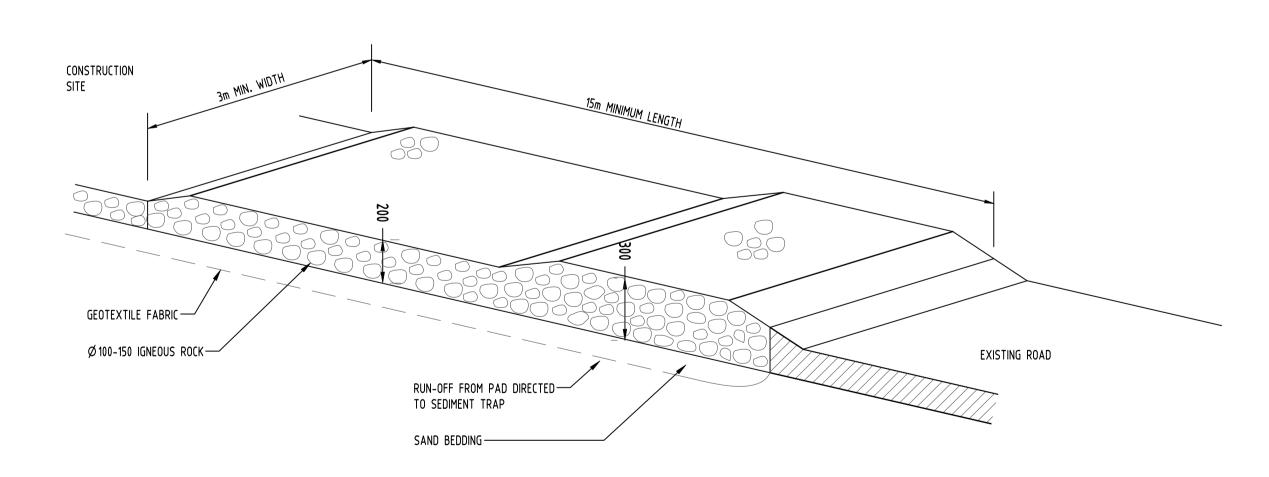
#### SEDIMENT FENCE NOT TO SCALE

## GEOTEXTILE INLET FILTER

GEOTEXTILE INLET FILTER IS PLACED IN EVERY PIT WITHIN THE SITE TO ENSURE THE RUNOFF WATER DURING CONSTUCTION NOT ENTER THE PITS.



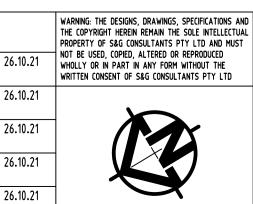




TEMPORARY CONSTRUCTION EXIT RUBBLE ALTERNATIVE NOT TO SCALE

A.B.N. 21 118 222 530

<u> </u>														
Ave	Н	SUBMISSION TO COUNCIL	SC	26.10.2021	2	Reference	Coordination Drawing			•				
Par	P6	PRELIMINARY	SC	22.10.2021	1	The remed	- coordination brawing			ENGINEERS		QUALITY	CONTROL	
32	G	SUBMISSION TO COUNCIL	SC	26.03.2021	2	Discipline	Drawing Title and Number	Date	Rev.					
22-	F	SUBMISSION TO COUNCIL	SC	25.03.2021	2	ARCH	-			MEMBER	DRAWN	SC	DATE	26.10.21
0119	E	SUBMISSION TO COUNCIL	SC	09.03.2021	2	ARCH								
2016	D	SUBMISSION TO COUNCIL	ZZ	04.12.2019	2	STRUCT				DIMENSIONS NOT SHOWN TO BE CHECKED ON	CHECKED	SH	DATE	26.10.21
9	C	SUBMISSION TO COUNCIL	FZ	07.12.2018	2	MECH			_	SITE. DO NOT SCALE OF THIS DRAWING.				
duction\2016\20160119	P5	PRELIMINARY	FZ	03.12.2018	1	ELEC			1	POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED	DESIGNED	SC	DATE	26.10.21
ij	P4	PRELIMINARY	FZ	08.11.2018	1	HYD			1	PRIOR TO COMMENCEMENT OF WORK. REPORT				
절	Issue	Last revision title	by	Date	Status	1			_	ANY DISCREPANCIES TO THE CONSULTING ENGINEER FOR DECISION/CLARIFICATION	VERIFIED	SH	DATE	26.10.21
-  -		Issuer internal sequence and revision his				LANDS				BEFORE PROCEEDING WITH THE WORK, THIS	121111125	3	5/112	20110121
		issuer internat sequence and revision his	ַ וטוי	/		LANDS				DRAWING IS TO BE READ IN CONJUNCTION	<del></del>			
-Si-		F		ion certifico	ate	CIVIL				WITH THE SPECIFICATIONS AND OTHER	APPROVED	SH	DATE	26.10.21
<del>-</del>	4	-tender 5-construction 6-oth	er			SURVEY	5864100113	28 03 2017	Ι Δ	CONSULTANTS' DRAWINGS.				



_							_
p	Scales						
L	0 <u>m</u>	1	2	3	4	5	
		SCALE	1:100 OI	n origin	AL SIZE		
$\dashv$							

NOT TO SCALE

STATEWIDE PLANNING

ARCHITECT

CLIENT



Suite 5.03, Level 5
156 PACIFIC HIGHWAY
ST LEONARDS, NSW 2065
T: +61 2 8883 4239
Email: office@sgce.com.au
Web: www.sgce.com.au

PROJECT PROPOSED RESIDENTIAL DEVELOPMENT 22-32 PARK AVENUE, WAITARA

Datum

A.H.D.

8 OF 10

NOT TO SCALE

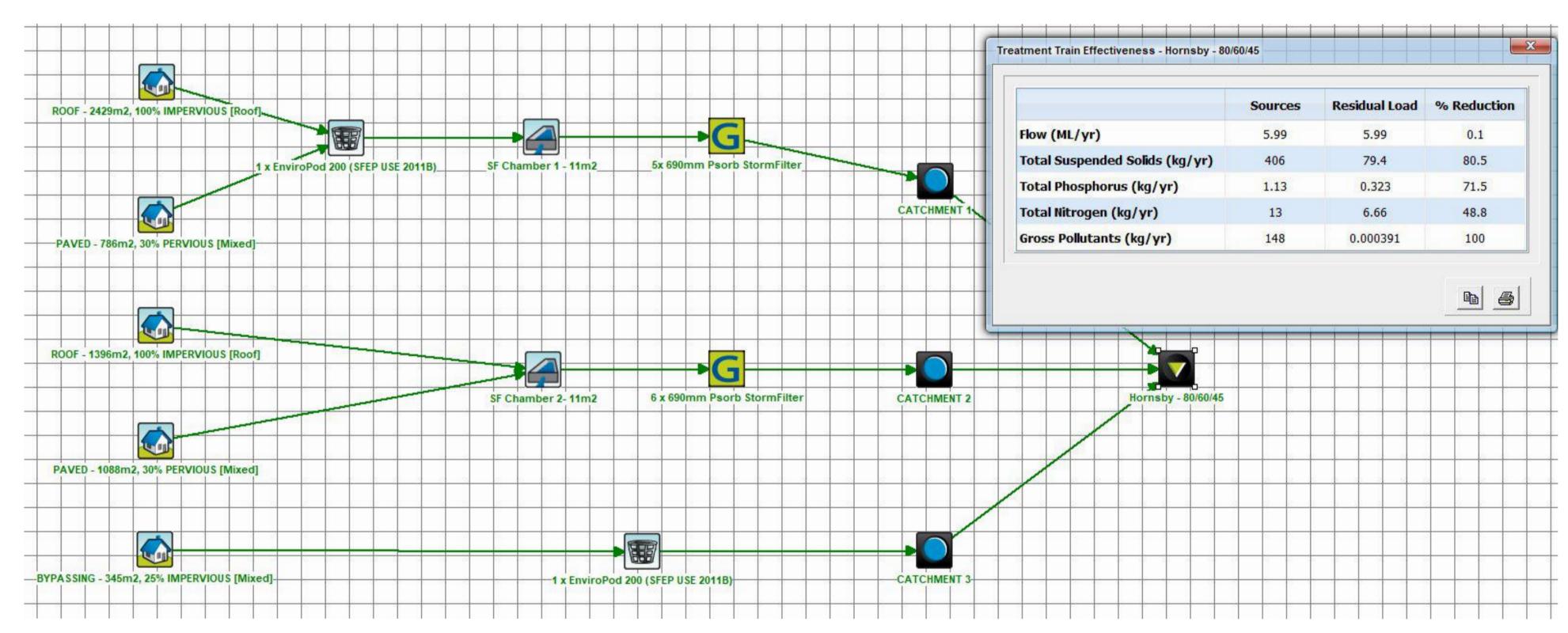
NOT TO BE USED FOR CONSTRUCTION PURPOSES
Drawing Title
STORMWATER CONCEPT DESIGN
DETAILS

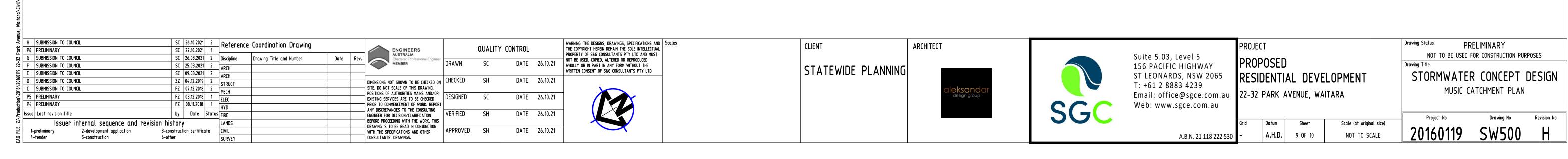
PRELIMINARY

Drawing Status

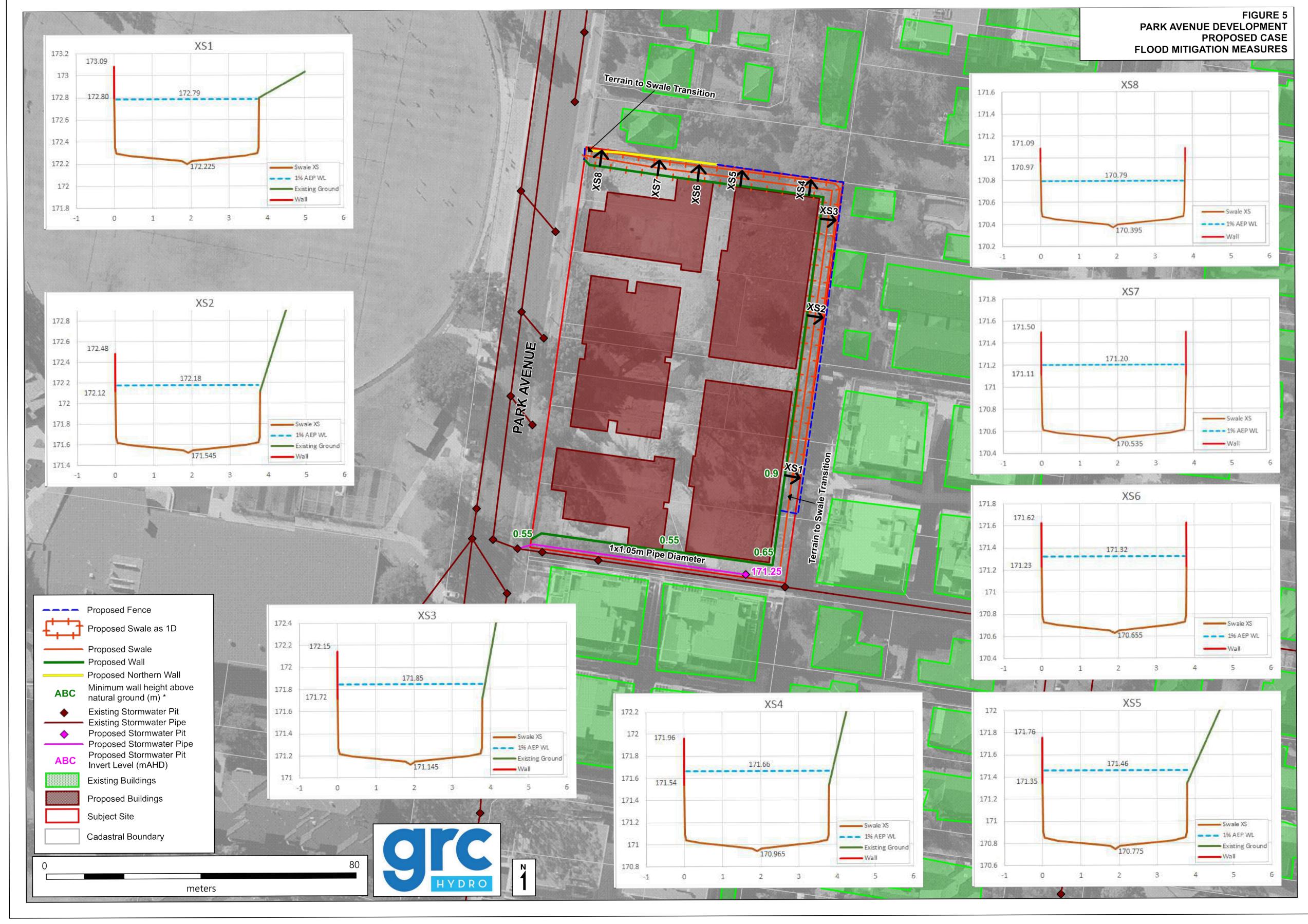
Scale (at original size) 20160119







A1



SUBMISSION TO COUNCIL WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PRELIMINARY CLIENT ARCHITECT PROJECT QUALITY CONTROL P6 PRELIMINARY PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT TO BE USED FOR CONSTRUCTION PURPOSES SC 26.03.2021 2 Discipline Suite 5.03, Level 5 SUBMISSION TO COUNCIL Drawing Title and Number PROPOSED NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD SC 25.03.2021 2
SC 09.03.2021 2
ARCH
ARCH
ZZ 04.12.2019 2
FZ 07.12.2018 2
FZ 03.12.2018 1
EEC
EZ 09.11.2018 1 DATE 26.10.21 156 PACIFIC HIGHWAY SUBMISSION TO COUNCIL STATEWIDE PLANNING SUBMISSION TO COUNCIL STORMWATER CONCEPT DESIGN ST LEONARDS, NSW 2065 RESIDENTIAL DEVELOPMENT DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS DRAWING.
POSITIONS OF AUTHORITIES MAINS AND/OR
EXISTING SERVICES ARE TO BE CHECKED

DRIVEN TO COMMUNICATIONS OF THE CHECKED DATE 26.10.21 SUBMISSION TO COUNCIL T: +61 2 8883 4239 SUBMISSION TO COUNCIL FLOOD MITIGATION PLAN Email: office@sgce.com.au 22-32 PARK AVENUE, WAITARA 75 PRELIMINARY DATE 26.10.21 FZ 08.11.2018 1 HYD Web: www.sgce.com.au P4 PRELIMINARY PRIOR TO COMMENCEMENT OF WORK. REPORT ANY DISCREPANCIES TO THE CONSULTING by Date Status FIRE Issue Last revision title DATE 26.10.21 ENGINEER FOR DECISION/CLARIFICATION
BEFORE PROCEEDING WITH THE WORK. THIS Issuer internal sequence and revision history Datum Scale (at original size) DRAWING IS TO BE READ IN CONJUNCTION 20160119 SW501 DATE 26.10.21 3-construction certificate APPROVED SH 2-development application WITH THE SPECIFICATIONS AND OTHER **A.H.D.** 10 OF 10 NOT TO SCALE A.B.N. 21 118 222 530 28.03.2017 A CONSULTANTS' DRAWINGS. 5-construction 6-other SURVEY 5864100113