COL	INCII	REF:
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REV.

45-45A OAKS AVENUE DEE WHY STORMWATER CONCEPT DESIGN



LOCALITY PLAN NOT TO SCALE COPYRIGHT OF NEARMAP

ARCHITECT



CLIENT

SHEET No.

03

DWG. No.

S01-SW100

S01-SW201

S01-SW301 S01-SW302 S01-SW303 S01-SW401

S01-SW402

DRAWING INDEX

DRAWING TITLE

COVER SHEET & DRAWING INDEX

STORMWATER CONCEPT DESIGN DETAILS 01

STORMWATER CONCEPT DESIGN DETAILS 02

AMERSFOORT



LGA

PREPARED BY



S&G CONSULTANTS PTY LTD

SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239

Email: office@sgce.com.au Web: www.sgce.com.au

INVESTMENT GROUP

ISSUED FOR DA NOT FOR CONSTRUCTION

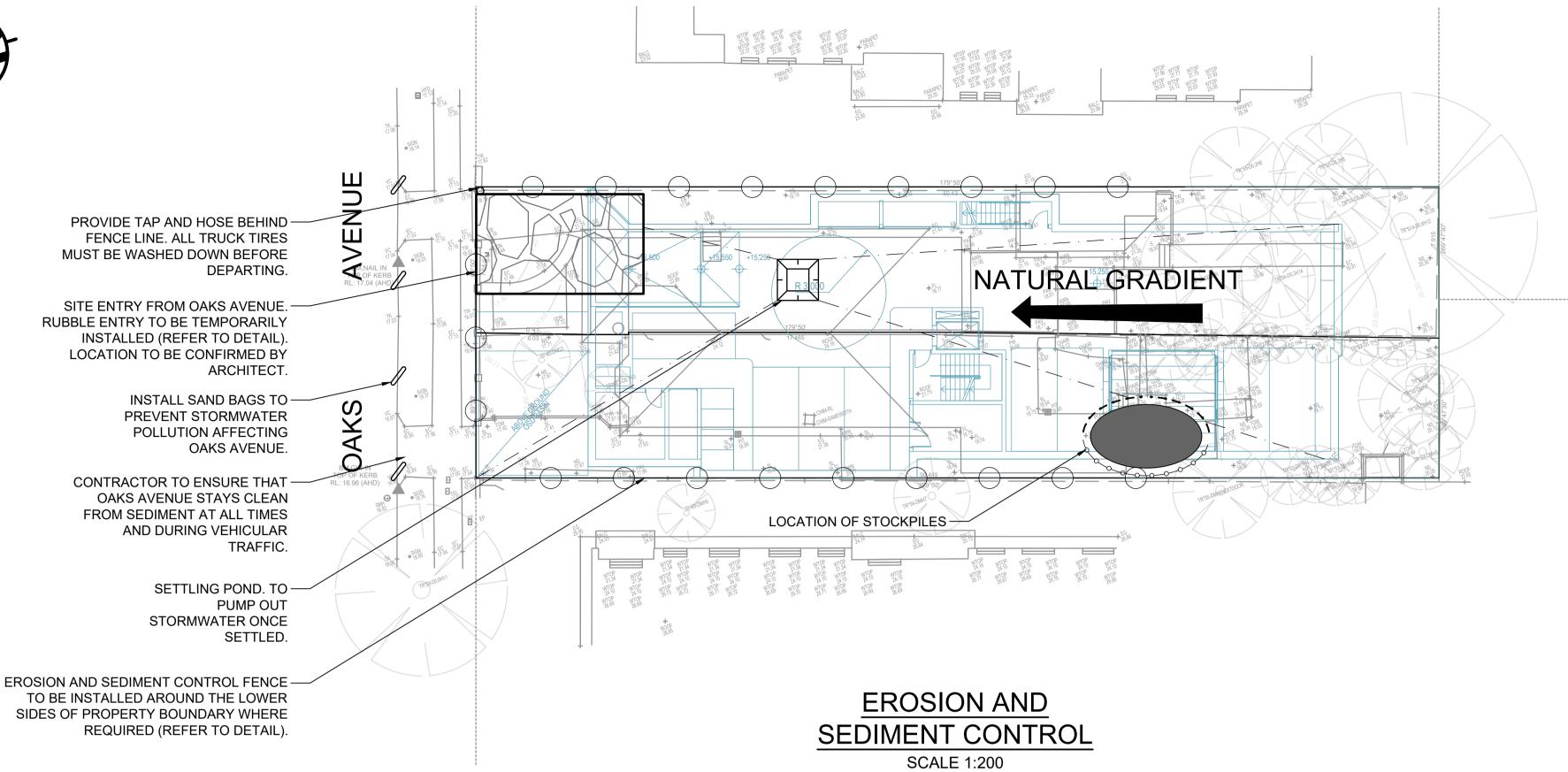
Project No. 20240075

Drawing No.

S01-SW100

Revision No. A





CONSTRUCTION NOTES

FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAT THE LENGTH OF THE INLET PIT

FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL

FORM AN ELLIPTICAL CROSS-SECTION OF THE KERB INLET LEAVING A 100mm GAP AT THE TOP TO ACT AS AN EMERGENCY SPILLWAY

MAINTAIN THE OPENING WITH SPACER BLOCKS

FORM A SEAL WITH THE KERBING AND PREVENT SEDIMENT BYPASSING THE FILTER

FIT TO ALL KERB INLETS AT SAG POINTS

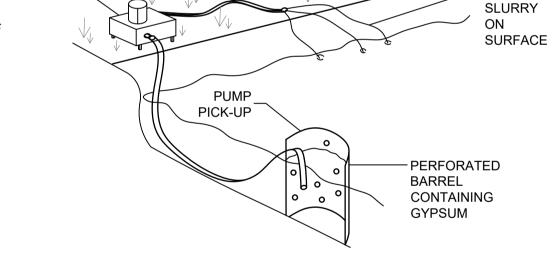
EROSION & SEDIMENTATION CONTROL NOTES

- 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.

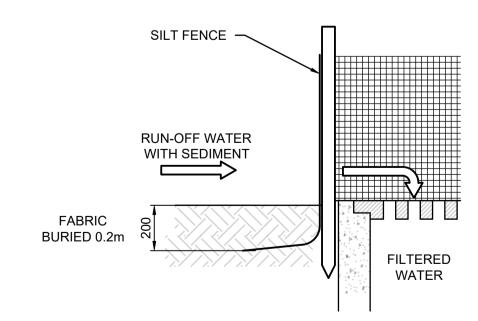
1. FLOCCULATION TO BE USED IF WATER IS NOT CLEAR (ie. SEDIMENT GREATER THAN 50 mg/L) PRIOR TO DISCHARGING FROM TEMPORARY PUMP OUT

FOR RATES & AGENTS SEE APPENDIX E OF NEW SOUTH WALES DEPARTMENT OF HOUSING "MANAGING URBAN STORMWATER

SOILS & CONSTRUCTION".



FLOCCULATION DETAIL NOT TO SCALE



GEOTEXTILE INLET FILTER NOT TO SCALE

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.

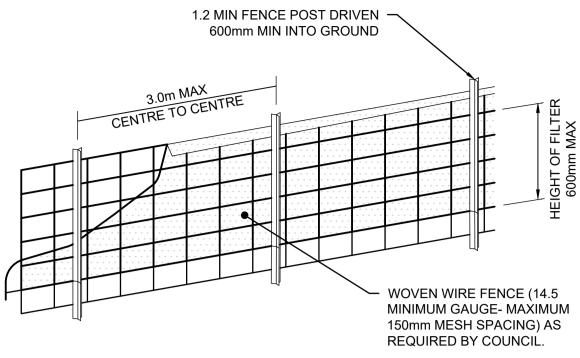
GEOTEXTILE INLET FILTER

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

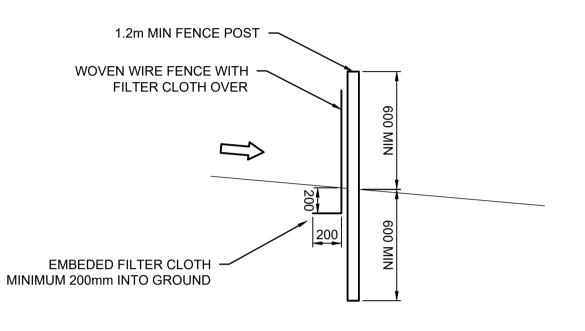
CLAY SOILS

A SYSTEM SHALL BE INSTALLED TO EITHER:

- 1. TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP
- 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.



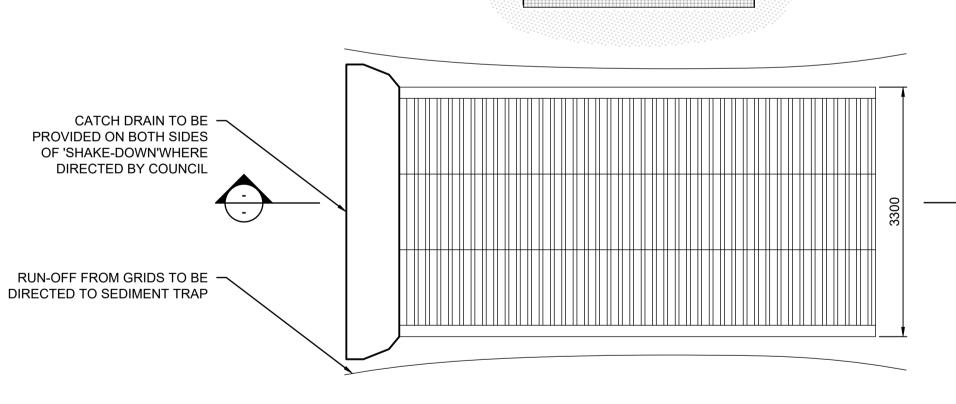
DIAGRAMMATIC VIEW

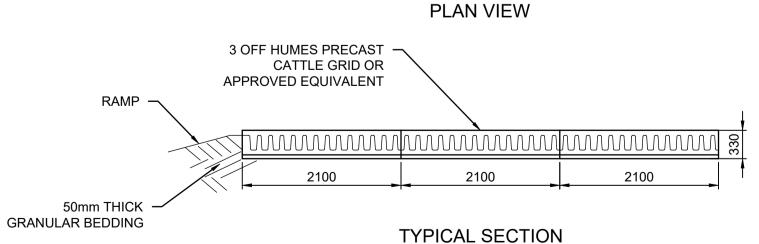


TYPICAL SECTION

SEDIMENT FENCE

NOT TO SCALE DROP INLET WITH GRATE GEOTEXTILE FILTER FABRIC



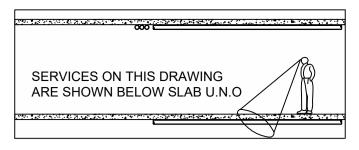


'CATTLE GRID' ALTERNATIVE

TEMPORARY CONSTRUCTION EXIT - NOT TO SCALE

M By KHALEEL FANC		Reference Coordination Drawing Discipline Drawing Title and Number Date Re	Quality	Control	ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER	Scales	Client	Architect		S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3 480 PACIFIC HIGHWAY	PROJECT 45-45A OAKS AVENUE	Status ISSUED FOR DA NOT FOR CONSTRUCTION Drawing Title
A ISSUED FOR DA KF P02 PRELIMINARY ISSUE KF P01 PRELIMINARY ISSUE KF	24.05.24 02 16.05.24 02 08.05.24 02	ARCH STRUCT MECH LEEC HYD	KF CHECKED SH DESIGNED	24.05.24 DATE 24.05.24 DATE 24.05.24	WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE	0 <u>m 2 4 6 8 1</u> 0 SCALE 1:200 ON ORIGINAL SIZE	AMERSFOORT INVESTMENT GROUP	M A I mackenzie architects		ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239		EROSION & SEDIMENT CONTROL PLAN & DETAILS
Issue Last revision title Symbol S	Date State S	tus FIRE LANDS CIVIL SURVEY	VERIFIED SH APPROVED SH	DATE 24.05.24 DATE	OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED 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 CONSULTANTS' DRAWINGS.		GROUP		SGC	A.B.N. 21 118 222 530	Grid Datum Sheet - A.H.D. 02	Project No. Set No Drg No. Revision No. 20240075 S01-SW201 A





GEO-TECHNICAL NOTE:

BASEMENT DRAINAGE DESIGN SUBJECT TO GEOTECHNICAL INVESTIGATION (INCLUDING WATER TABLE AND SEEPAGE RATE) AND STRUCTURAL DESIGN OF WALLS AND SLABS.

PUMP-OUT PIT NOTE:

INSTALL WITH THE FOLLOWING ITEMS:

- 900SQ HEAVY DUTY STEEL
GRATED LID FOR ACCESS AND
MAINTENANCE PURPOSES.
-CONFINED SPACE SIGN ABOVE
PUMP OUT PIT FOR PUBLIC
AWARENESS AND WARNING.
-STEP IRONS. REFER TO DETAILS.
-PUMPOUT PIT CONTROL BOX
(CTRL) TO MANUFACTURERS
SPECIFICATIONS. LOCATIONS TO
BE CONFIRMED WITH ARCHITECT.
-PUMPS TO OPERATE IN
ALTERNATE MODE TO INCREASE

LIFESPAN
-INSTALL VISIBLE FLASHING LIGHT
SYSTEM IN CASE OF PUMP

FAILURE
-INSTALL 1x MAN 550/2/80 A1FT/50
FROM ZENIT WATER SOLUTIONS
OR SIMILAR 3 PHASE PUMPS WITH
10L/s OUTFLOW FOR 14m HEAD

SUBSOIL DESIGN CALCS:

100yr 2hr ARI STORM= 46.4mm/hr ARIx2= 92.8 mm

AREA OF DRIVEWAY UNCOVERED RAMP = 106.15 m²

CALCULATIONS:

V=Axd =106.15x(92.8/1000)

=9.85m³

VOLUME NEEDED= 9.85m³

THEREFORE, A VOLUME OF 10.00m³ SUBSOIL PUMP OUT PIT WILL BE APPLIED AS PER AUSTRALIAN STANDARD (AS3500.3).

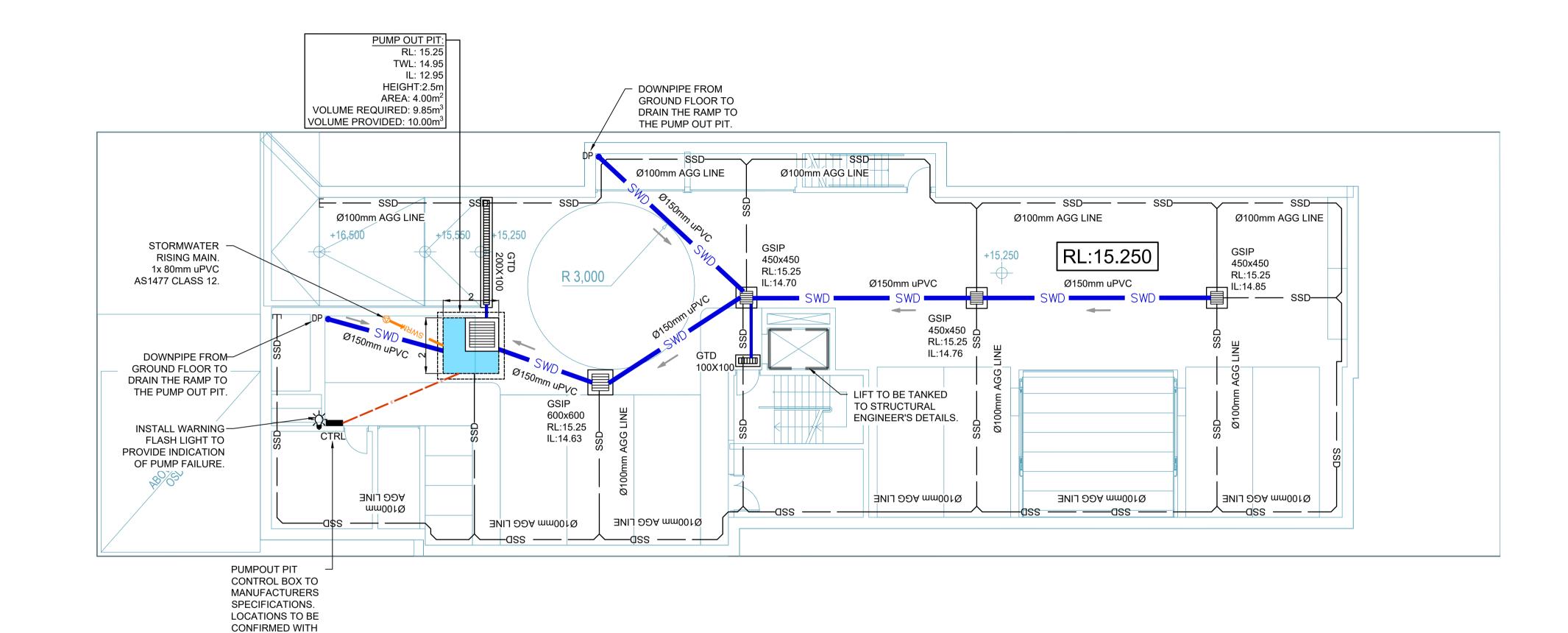
SURFACE GRADING

NOTE:

SURFACES ARE TO BE GRADED
TOWARDS SURFACE INLET PIT (GSIP)
AND RAINWATER OUTLET (RWO) AT 1%
MIN. FOR UNCOVERED AREA AND AT
0.5% MIN. FOR COVERED AREA.

PUMP NOTE

ALL STORMWATER PUMPS TO BE CLASS 1 ZONE 2 FLAME SAFE TO ELECTRICAL CONSULTANT'S REQUIREMENTS.



		Reference Coordination Drawing	Quality (Control	ENGINEERS AUSTRALIA Chartered Prefereignal Engineer	Scales	Client	Architect		S&G CONSULTANTS PTY LTD	PROJECT	Status ISSUED FOR DA
		Discipline Drawing Title and Number Date Rev ARCH STRUCT	DRAWN KF CHECKED	DATE 24.05.24 DATE	WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF		AMERSFOORT			ST. LEONARDS, N.S.W. 2065	45-45A OAKS AVENUE	NOT FOR CONSTRUCTION Drawing Title STORMWATER CONCEPT DESIGN
A ISSUED FOR DA PO2 PRELIMINARY ISSUE	XF 24.05.24 02 XF 16.05.24 01	MECH ELEC	SH DESIGNED	24.05.24 DATE	ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD	0m 1 2 3 4 5 SCALE 1:100 ON ORIGINAL SIZE		M A mackenzie architects		T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au	STORMWATER CONCEPT DESIGN	BASEMENT PLAN
P01 PRELIMINARY ISSUE K	F 08.05.24 01 By Date Status	HYD FIRE	KF VERIFIED	24.05.24 DATE	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		GROUP	international	CCC	web. www.sgcc.com.au		Project No. Set No Drg No. Revision No
Issuer internal sequence and revolution 1-preliminary 2-development application 4-tender 5-construction	rision history 3-construction certificate 6-other	CIVIL SURVEY	SH APPROVED	24.05.24 DATE 24.05.24	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 CONSULTANTS' DRAWINGS.				366	A.B.N. 21 118 222 530	Grid Datum Sheet - A.H.D. 03	20240075 S01-SW301 A

ARCHITECT.



DESIGN NOTES:

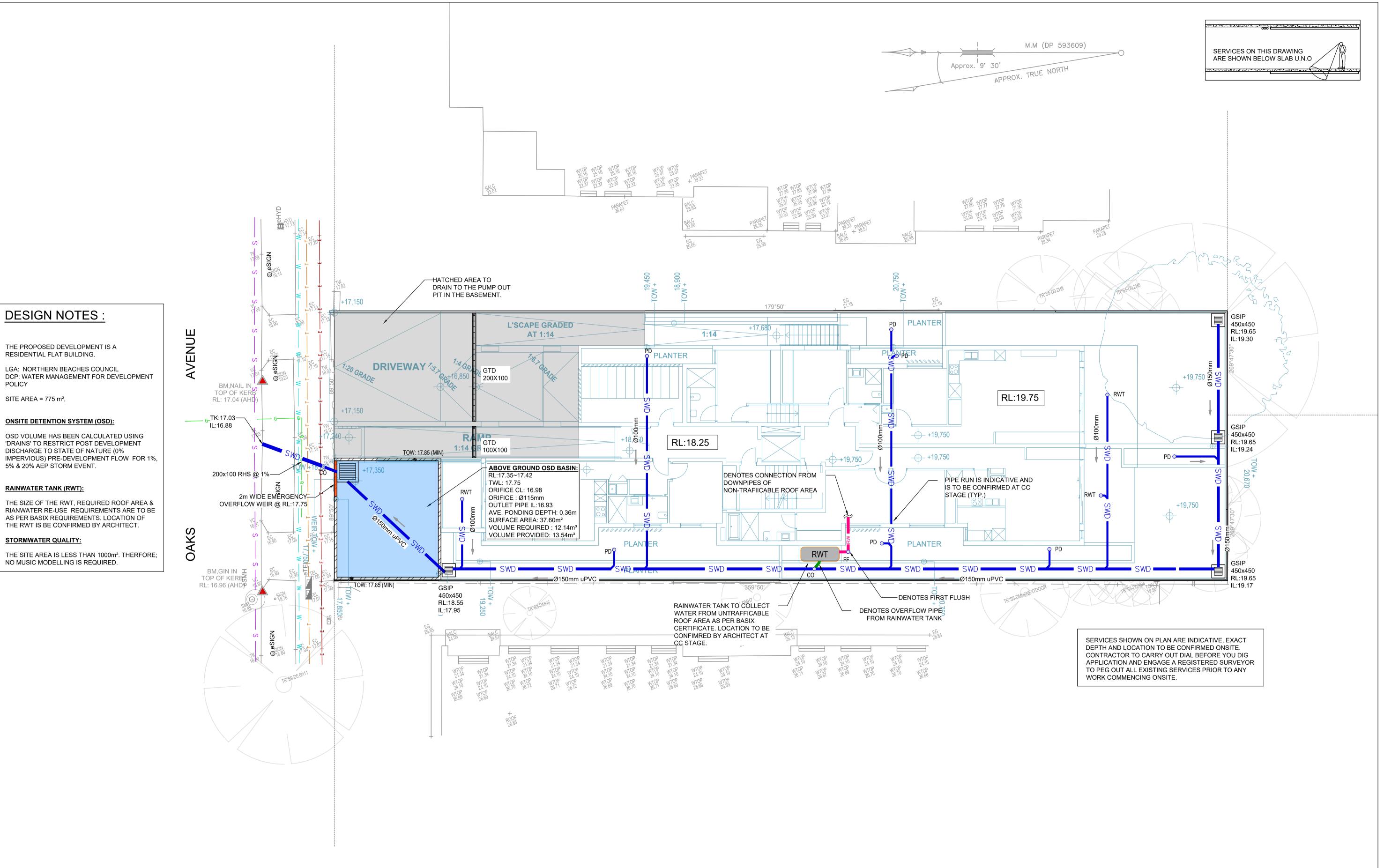
POLICY

SITE AREA = 775 m²,

5% & 20% AEP STORM EVENT.

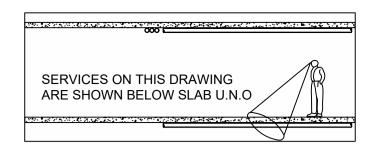
RAINWATER TANK (RWT):

STORMWATER QUALITY:



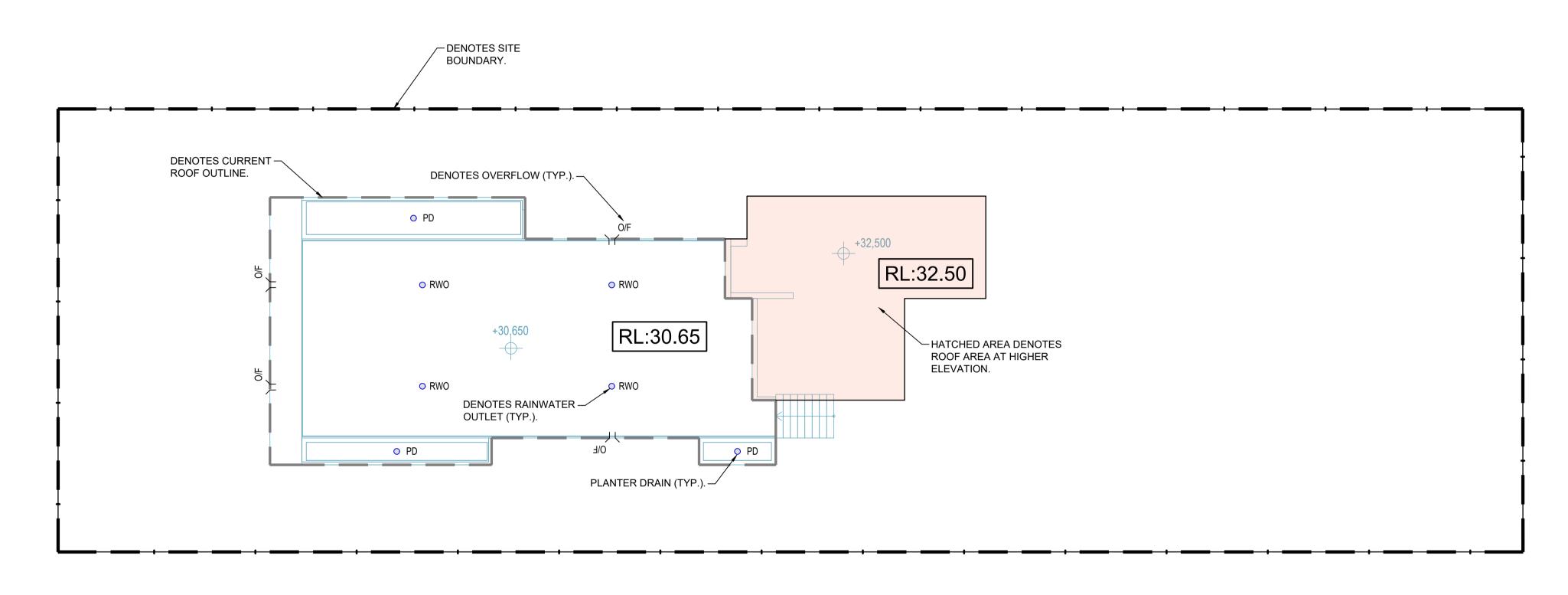
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A ISSUED FOR DA KF 2 P02 PRELIMINARY ISSUE KF P01 PRELIMINARY ISSUE KF	24.05.24 02 16.05.24 01 08.05.24 01	ARCH STRUCT MECH ELEC HYD	awing Title and Number Date Re	V. DRAWN KF CHECKED SH DESIGNE	24.05.24	MEMBER WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE	0 <u>m 1 2 3 4 5</u> SCALE 1:100 ON ORIGINAL SIZE	AMERSFOORT INVESTMENT GROUP	mackenzie architects		ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239	45-45A OAKS AVENUE DEE WHY STORMWATER CONCEPT DESIGN	Drawing Title STORMWATER CONCEPT DESIG
Issue Last revision title Issuer internal sequence and revision his	truction certificate	FIRE LANDS CIVIL SURVEY		VERIFIED SH APPROVE SH	DATE 24.05.24 D DATE	OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED 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 CONSULTANTS' DRAWINGS.		GROOI		SGC	A.B.N. 21 118 222 530	Grid Datum Sheet - A.H.D. 04	Project No. Set No Drg No. Revision I 20240075 S01-SW302 A





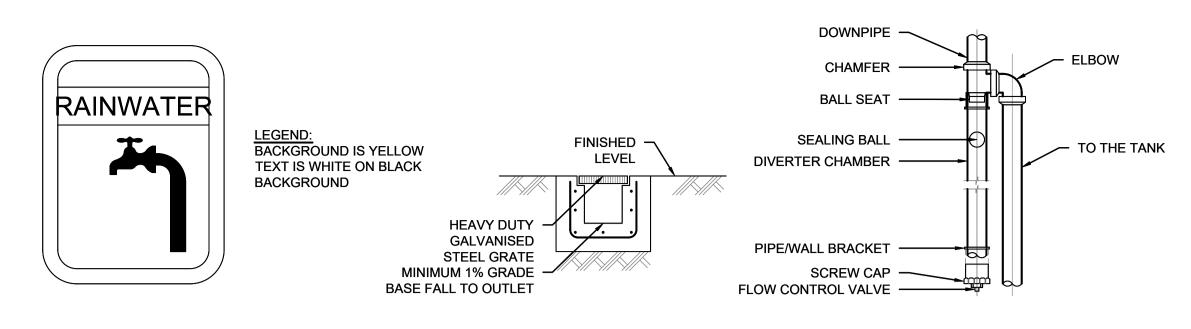
ROOF DRAINAGE NOTES:

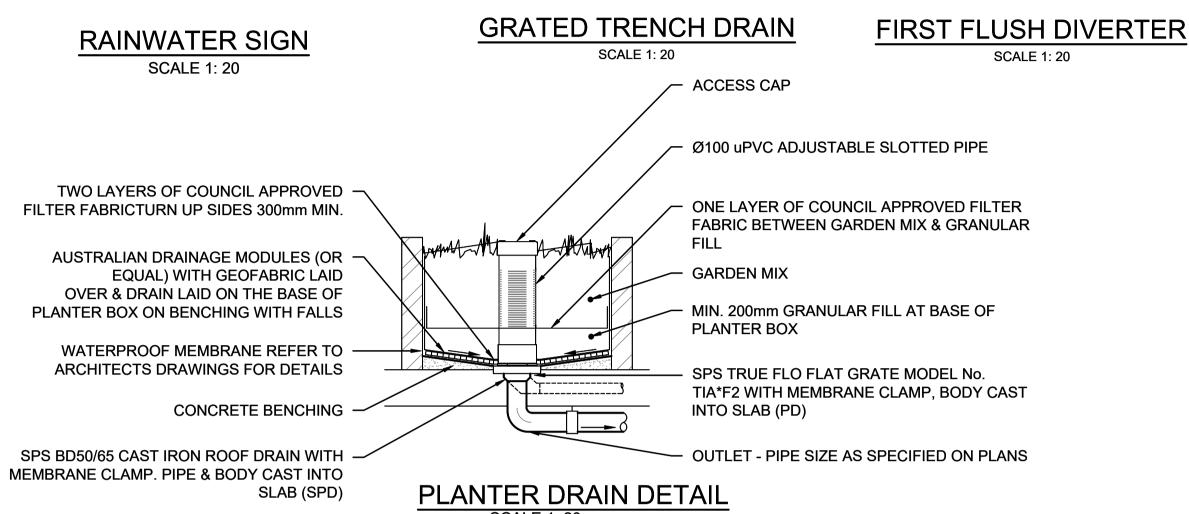
ALL RAINWATER AND OVERFLOW ARE INDICATIVE. EXACT SIZE AND LOCATION TO BE CONFIRMED AT C.C. STAGE.

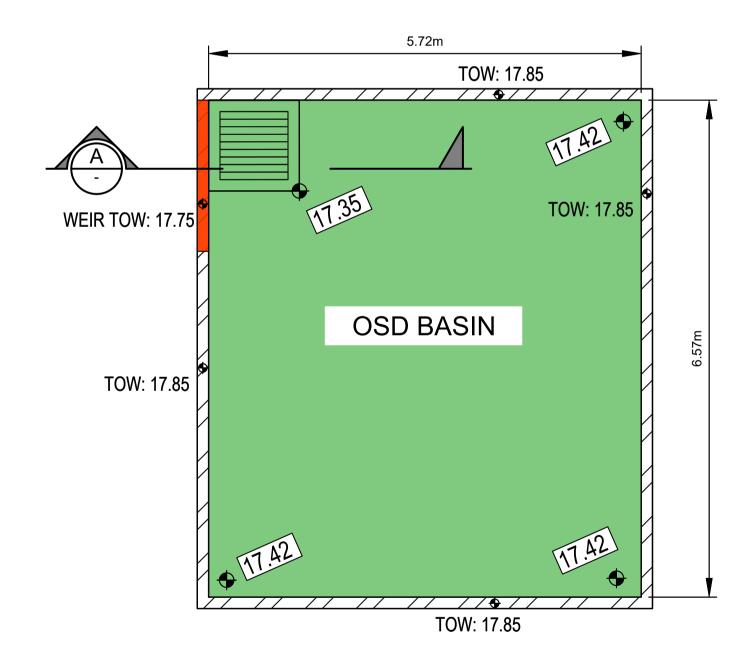


ROOF PLAN

Reference Coordination Drawing Discipline Drawing Title and Number Date Rev.	Quality Control ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER	Scales	Client	Architect		S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3		Status ISSUED FOR DA NOT FOR CONSTRUCTION
ARCH STRUCT STRUCT P02 PRELIMINARY ISSUE KF 16.05.24 01 ELEC	KF 24.05.24 WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD.	0 <u>m 1 2 3 4 5</u> SCALE 1:100 ON ORIGINAL SIZE	AMERSFOORT INVESTMENT	mackenzie		480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239 Email: office@sgce.com.au	45-45A OAKS AVENUE DEE WHY STORMWATER CONCEPT DESIGN	STORMWATER CONCEPT DESIGN ROOF
P01 PRELIMINARY ISSUE KF 08.05.24 01 HYD Issue Last revision title By Date Status FIRE LANDS LAN	DESIGNED DATE KF 24.05.24 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. 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 SH 24.05.24 SPECIFICATIONS AND OTHER CONSULTANTS' DRAWINGS.	SCALE 1.100 ON ORIGINAL SIZE	GROUP	M A architects	SGC	Web: www.sgce.com.au A.B.N. 21 118 222 530	Grid Datum Sheet	Project No. Set No Drg No. Revision No. 20240075 S01-SW303 A

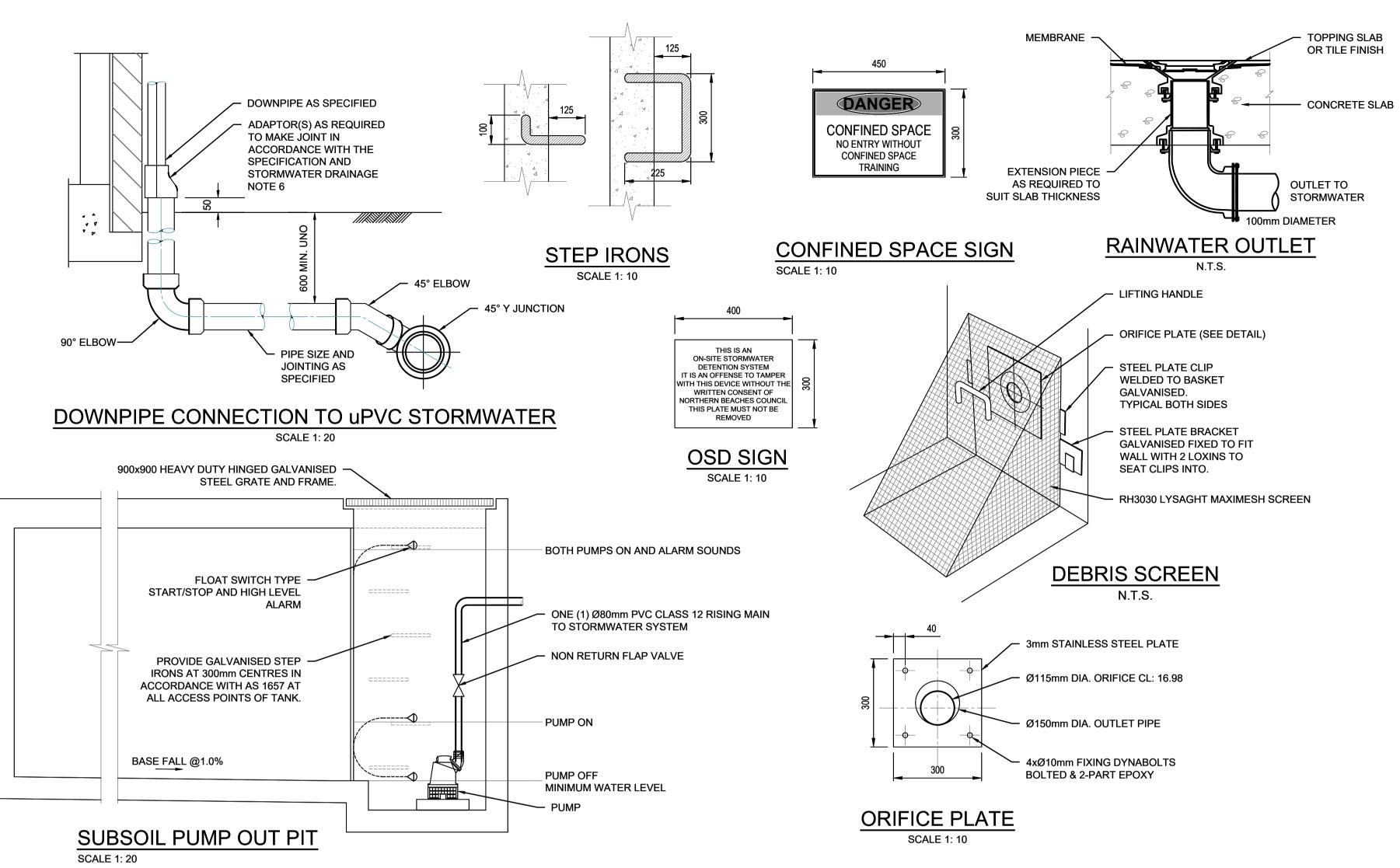


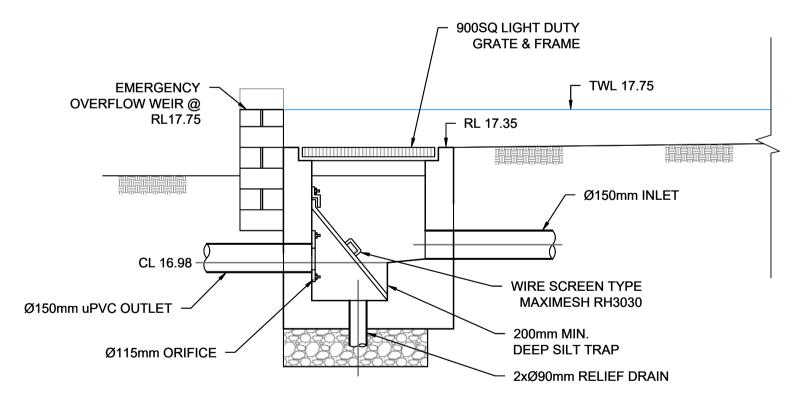




OSD BASIN PLAN VIEW

SCALE 1:50





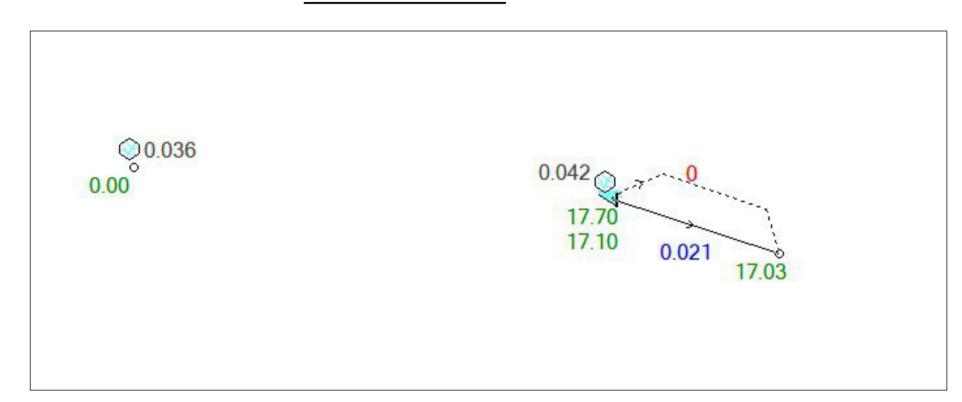
SECTION A

DCP (OSD)
NOT TO SCALE

Reference Coordination Drawing	Quality Control ENGINEERS AUSTRALIA Chartered Professional Engineer	Scales	Client	Architect		S&G CONSULTANTS PTY LTD	PROJECT	Status ISSUED FOR DA NOT FOR CONSTRUCTION
Discipline Drawing Title and Number Date Rev. ARCH STRUCT	DRAWN DATE KF 24.05.24 WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED,	0m 1 2 3 4 5 SCALE 1:100 ON ORIGINAL SIZE	AMERSFOORT			ST. LEONARDS, N.S.W. 2065	45-45A OAKS AVENUE DEE WHY	Drawing Title STORMWATER CONCEPT DESIGN
A ISSUED FOR DA KF 24.05.24 02 MECH	SH 24.05.24 ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM WITHOUT THE WRITTEN CONSENT OF S&G CONSULTANTS PTY LTD DESIGNED DATE 24.05.24 DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE DO NOT SCALE	0 <u>m0,20,40,60,81,</u> 0	INVESTMENT	M A mackenzie architects		T: +61 2 8883 4239 Email: office@sgce.com.au Web: www.sgce.com.au	STORMWATER CONCEPT DESIGN	DETAILS 01
Issue Last revision title By Date Status FIRE LANDS LA	VERIFIED DATE SH 24.05.24 OF THIS DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE CHECKED 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	SCALE 1:20 ON ORIGINAL SIZE	GROUP		SGC		Grid Datum Sheet	Project No. Set No Drg No. Revision No. 20240075 S01-SW401 A



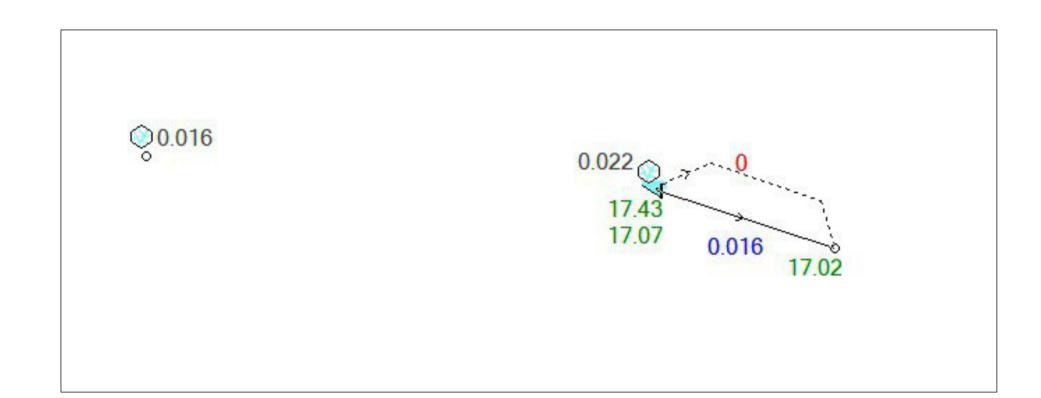
DRAINS MODEL



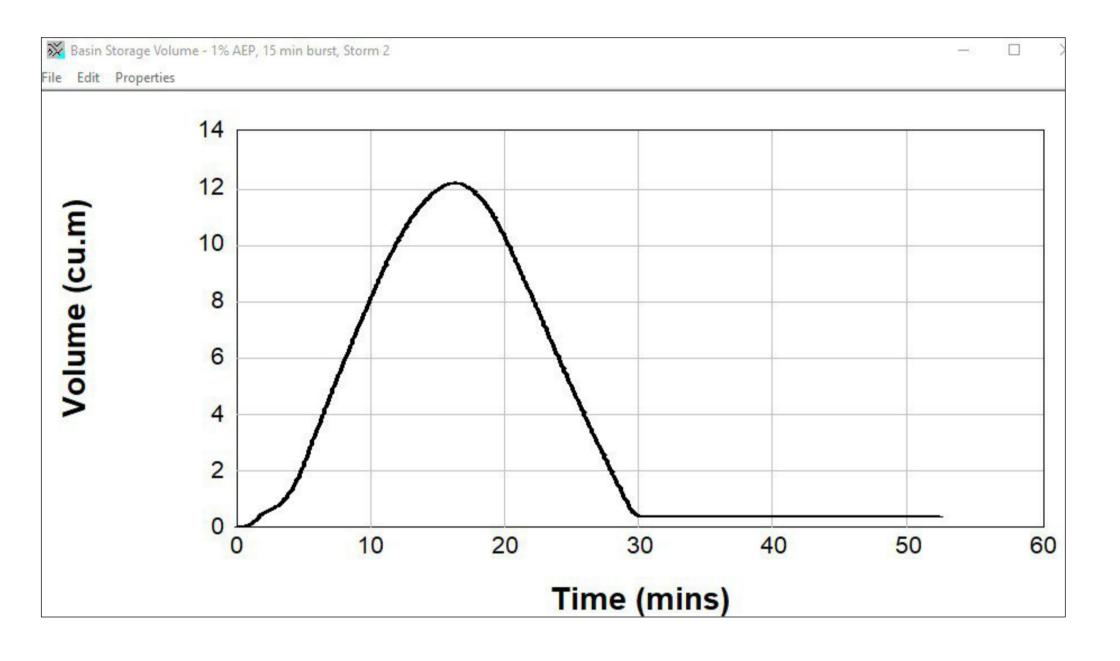
1% AEP DRAINS RESULTS



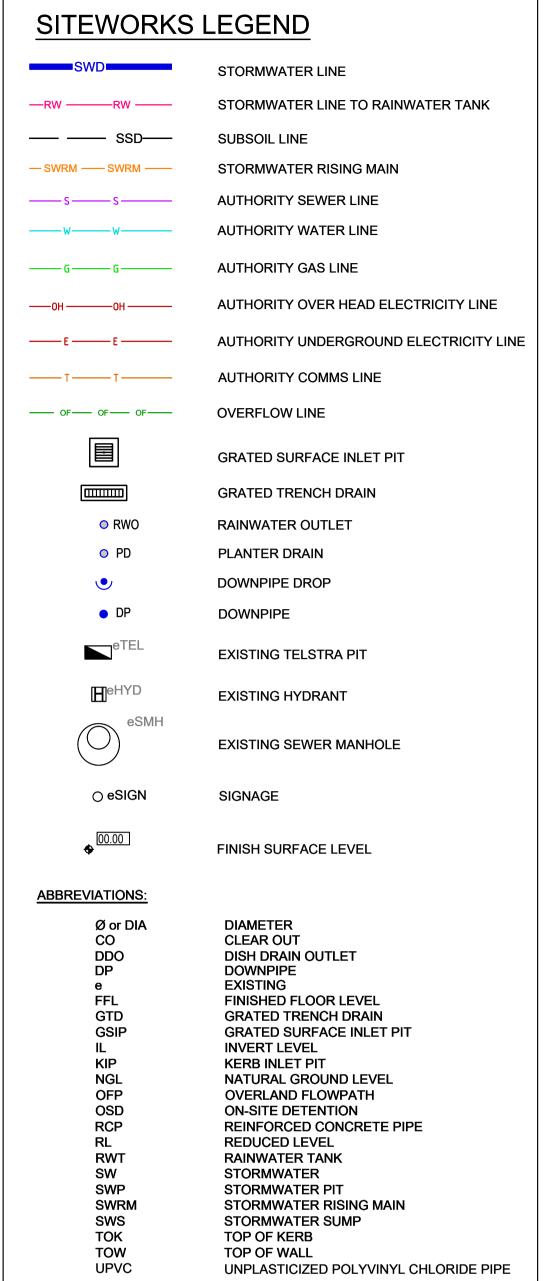
5% AEP DRAINS RESULTS



20% AEP DRAINS RESULTS



DRAINS OSD VOLUME



X KHALEEL FAI	Reference Coordination Drawing Discipline Drawing Title and Number Date F	Quality Control	ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER	Scales	Client	Architect		S&G CONSULTANTS PTY LTD SUITE 311, LEVEL 3		Status ISSUED FOR DA NOT FOR CONSTRUCTION
A ISSUED FOR DA KF 24.05.24	ARCH STRUCT 02 MECH	DRAWN DATE KF 24.05.24 CHECKED DATE SH 24.05.24	WARNING: THE DESIGNS, DRAWINGS, SPECIFICATIONS AND THE COPYRIGHT HEREIN REMAIN THE SOLE INTELLECTUAL PROPERTY OF S&G CONSULTANTS PTY LTD AND MUST NOT BE USED, COPIED, ALTERED OR REPRODUCED WHOLLY OR IN PART IN ANY FORM	0m 1 2 3 4 5 SCALE 1:100 ON ORIGINAL SIZE	AMERSFOORT	maçkenzie		480 PACIFIC HIGHWAY ST. LEONARDS, N.S.W. 2065 T: +61 2 8883 4239		Drawing Title STORMWATER CONCEPT DESIGN DETAILS 02
P02 PRELIMINARY ISSUE KF 16.05.24 P01 PRELIMINARY ISSUE KF 08.05.24 Issue Last revision title By Date Issuer internal sequence and revision history 1-preliminary 2-development application 3-construction or 4-tender 5-construction 6-other	01 ELEC 01 HYD Status FIRE LANDS CIVIL SURVEY SURVEY	DESIGNED DATE KF 24.05.24 VERIFIED DATE SH 24.05.24 APPROVED DATE SH 24.05.24	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. 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 CONSULTANTS' DRAWINGS.	0m 0.1 0.2 0.3 0.4 0.5 SCALE 1:10 ON ORIGINAL SIZE	INVESTMENT GROUP	M A architects international	SGC	Web: www.sgce.com.au A.B.N. 21 118 222 530	STORMWATER CONCEPT DESIGN Grid Datum Sheet - A.H.D. 07	Project No. Set No Drg No. Revision No. 20240075 S01-SW402 A