SW100

MIXED USE DEVELOPMENT 4 DELMAR PDE & 812 PITTWATER ROAD, DEE WHY STORMWATER CONCEPT DESIGN



	DRAWINGS LIST		
REV	TITLE	DWG	SHEET No.
E	COVER SHEET	SW1	1
E	STORMWATER CONCEPT DESIGN - BASEMENT 2 PLAN	SW2	2
E	STORMWATER CONCEPT DESIGN - BASEMENT 1 PLAN	SW2	3
E	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 1 OF 2	SW2	4
E	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN - SHEET 2 OF 2	SW2	5
E	STROMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 1 OF 2	SW3	6
E	STROMWATER CONCEPT DESIGN - DETAILS SHEET - SHEET 2 OF 2	SW3	7
E	EROSION AND SEDIMENT CONTROL - PLAN	SW4	8
E	EROSION AND SEDIMENT CONTROL - DETAILS	SW4	9
E	STROMWATER CONCEPT DESIGN - MUSIC CATCHMENT PLAN	SW5	10

LOCALITY PLAN NOT TO SCALE COPYRIGHT OF SIX MAPS



PREPARED BY:

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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. -USE SABRE KS 75 OR EQUIVALENT DUAL PUMPS TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL. -INSTALL 2x SUBMERSIBLE PUMPS EACH WITH A PUMP CAPACITY OF 10L/s AT 5.0m HEAD, FLOAT SWITCH AND CONTROL PANEL TO MANUFACTURER'S SPECIFICATIONS.

SUBSOIL DESIGN CALCS:

THE AREA OF DRIVEWAY RAMP IS COVERED THEREFORE IN ACCORDANCE WITH AS3500, THE MINIMUM PUMPOUT PIT SIZE IS 3m³.

GEO-TECHNICAL NOTE:

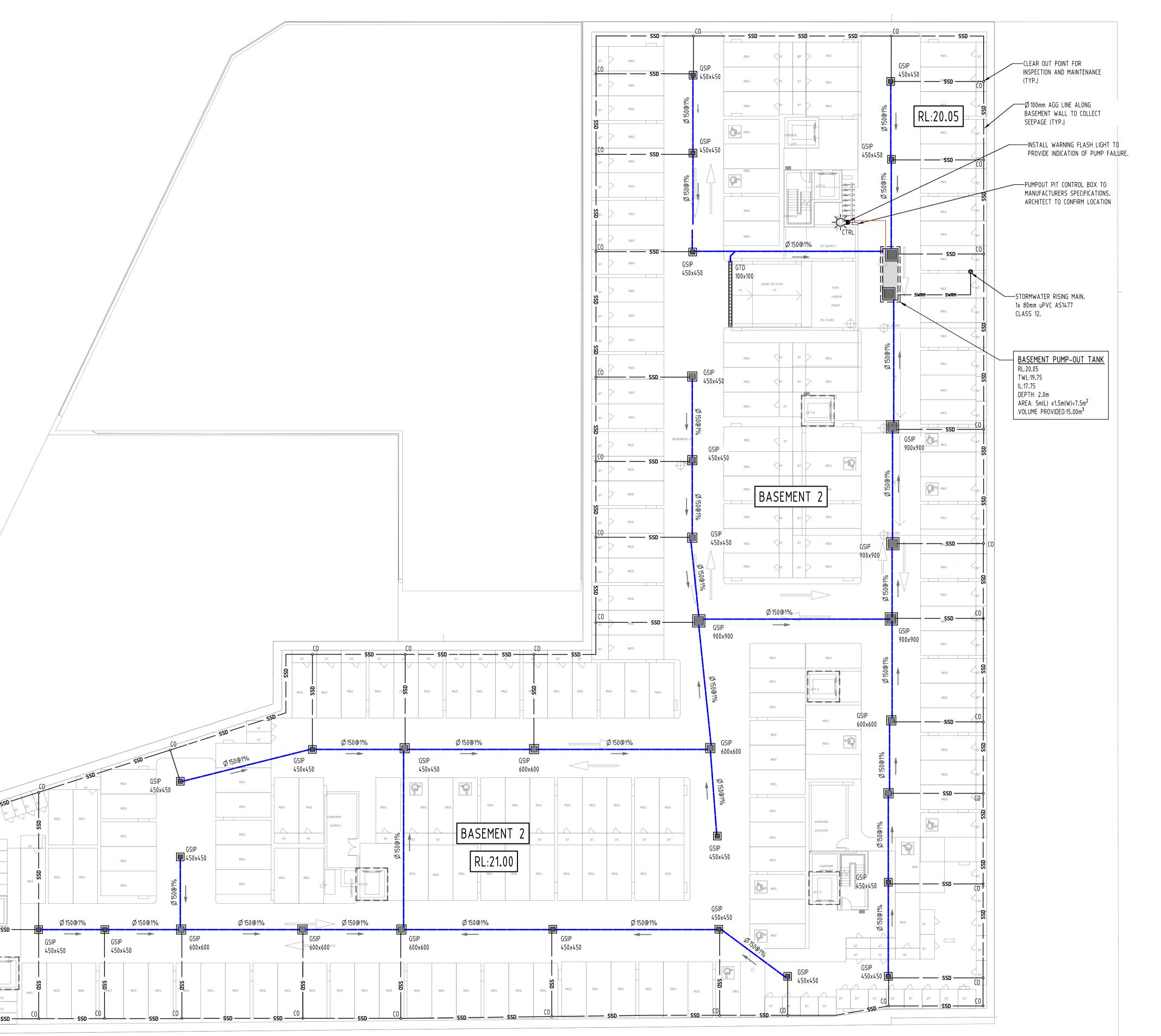
BASEMENT DRAINAGE DESIGN SUBJECT TO GEOTECHNICAL INVESTIGATION AND STRUCTURAL DESIGN OF WALLS AND SLABS IN C.C. STAGE.

IF EXCESSIVE GROUNDWATER SEEPAGE OR WATER TABLE IS ENCOUNTERED DURING BULK EXCAVATION; STORMWATER ENGINEER IS TO BE NOTIFIED TO REASSESS BASEMENT PUMP-OUT DRAINAGE DESIGN.

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 AS PER AS2890.

> LIFT TO BE TANKED TO STRUCTURAL ENGINEER'S DETAILS AT C.C.



E	ISSUE FOR DA - PIPE LAYOUT AMENDED & FLOOD VOID ADDED	SH	17.03.23	2
D	ISSUE FOR DA	MS	30.11.22	2
C	ISSUE FOR DA	MS	10.12.21	2
В	ISSUE FOR DA	MS	01.12.21	2
Α	ISSUE FOR DA	MS	26.11.21	2
P2	PRELIMINARY ISSUE	MN	01.11.21	1
P1	PRELIMINARY ISSUE	MS	17.08.21	1
No	Last revision title	Ву	Date	Status

Issuer internal sequence and revision history 2- development application 4- tender 5- construction 6- other (specify)

Reference	Coordination Drawing		
Discipline	Drawing Title and Number	Date	Rev.
ARCH			
ARCH			
STRUCT			
MECH			
ELEC			
HYD			
FIRE			
LANDS			
CIVIL			
SURVEY			

	QUALIT'	Y CONTROL		DISCLAIMER: DIMENSIONS NOT SHOWN TO BE CHECKED ON SITE. DO NOT SCALE OF THIS
RAWN	MS	DATE	10.12.21	DRAWING. POSITIONS OF AUTHORITIES MAINS AND/OR EXISTING SERVICES ARE TO BE
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PROJECT

PROPOSED MIXED USE DEVELOPMENT 4 DELMAR PARADE & 812 PITTWATER ROAD, DEE WHY

STORMWATER CONCEPT DESIGN BASEMENT 2 PLAN

Pr	oject No	Drawing No	Revision No
202	10067	SW200	Ε
Sheet	Scale	Grid	Datum
2/10	1:200 @ A1	MGA 56	A.H.D.

Drawing Status

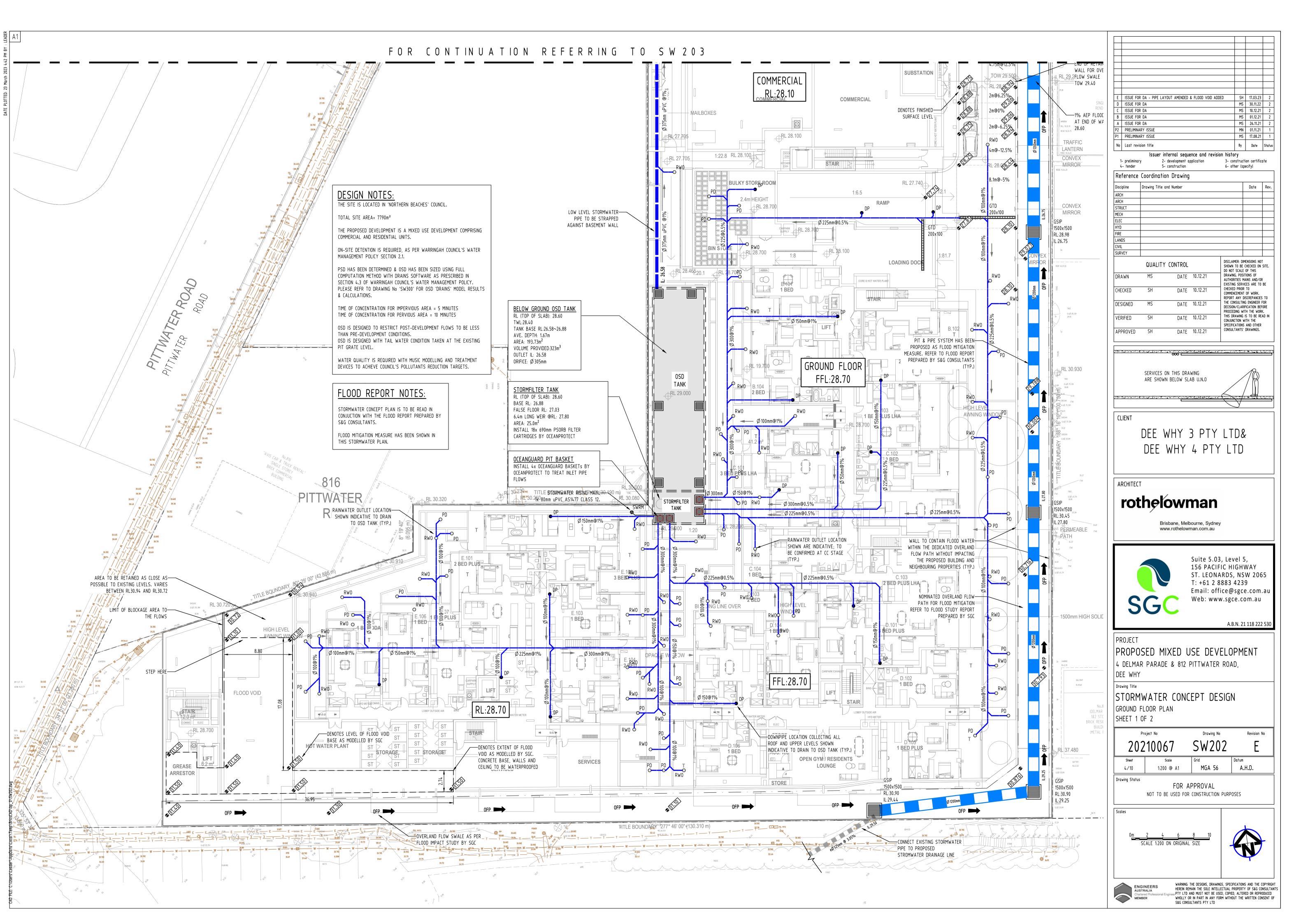
FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES

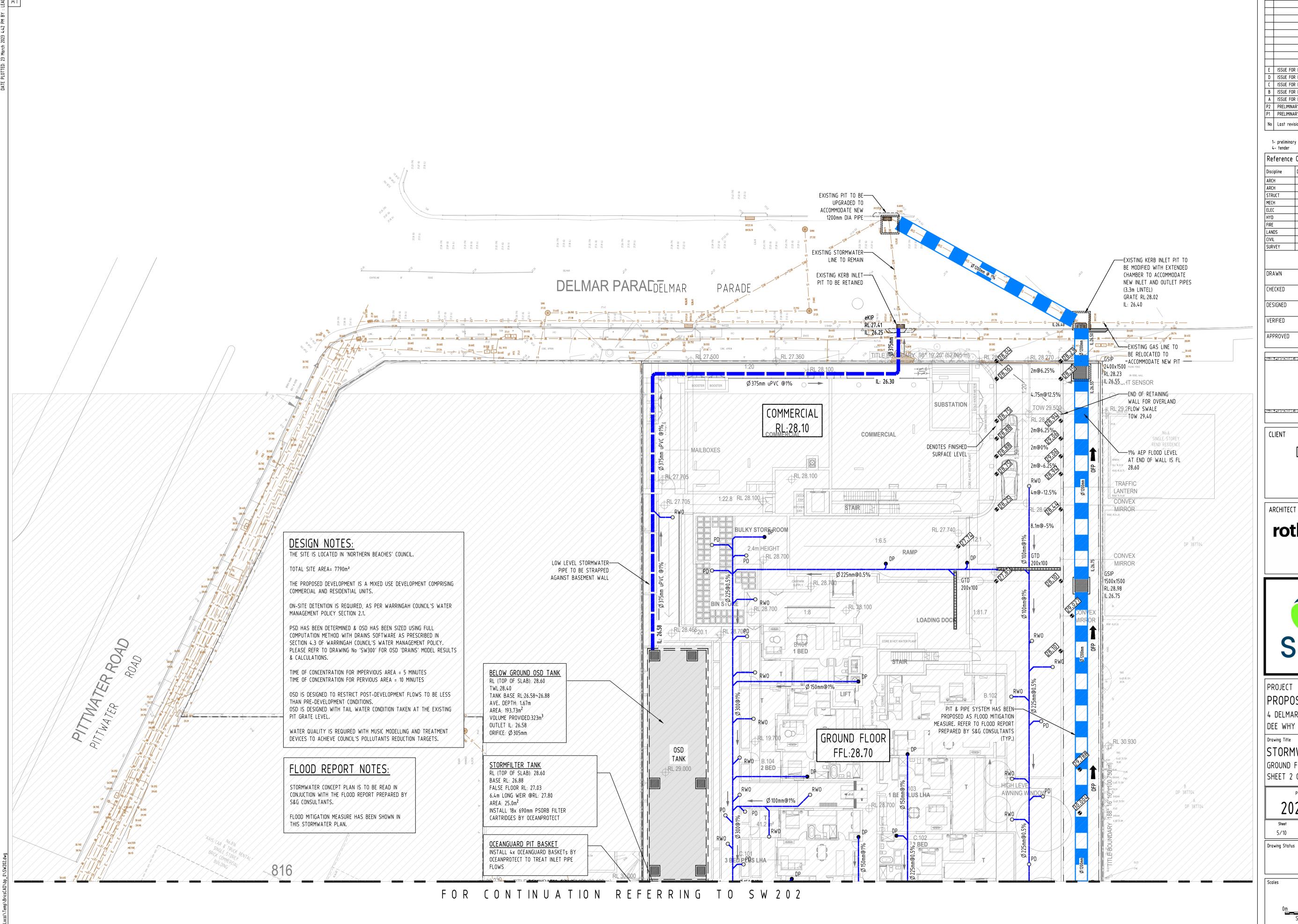




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E ISSUE FOR DA - PIPE LAYOUT AMENDED & FLOOD VOID ADDED SH 17.03.23 2 D ISSUE FOR DA MS 30.11.22 2 MS 10.12.21 2 C ISSUE FOR DA MS 01.12.21 2 B ISSUE FOR DA A ISSUE FOR DA P2 PRELIMINARY ISSUE
P1 PRELIMINARY ISSUE MS 17.08.21 1 No Last revision title

Issuer internal sequence and revision history 2- development application 3- construction certificate 6- other (specify)

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Discipline	Drawing Title and Number			Date	Rev.
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HYD					
FIRE					
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PROPOSED MIXED USE DEVELOPMENT 4 DELMAR PARADE & 812 PITTWATER ROAD,

STORMWATER CONCEPT DESIGN GROUND FLOOR PLAN SHEET 2 OF 2

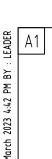
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202	10067	SW203	Е
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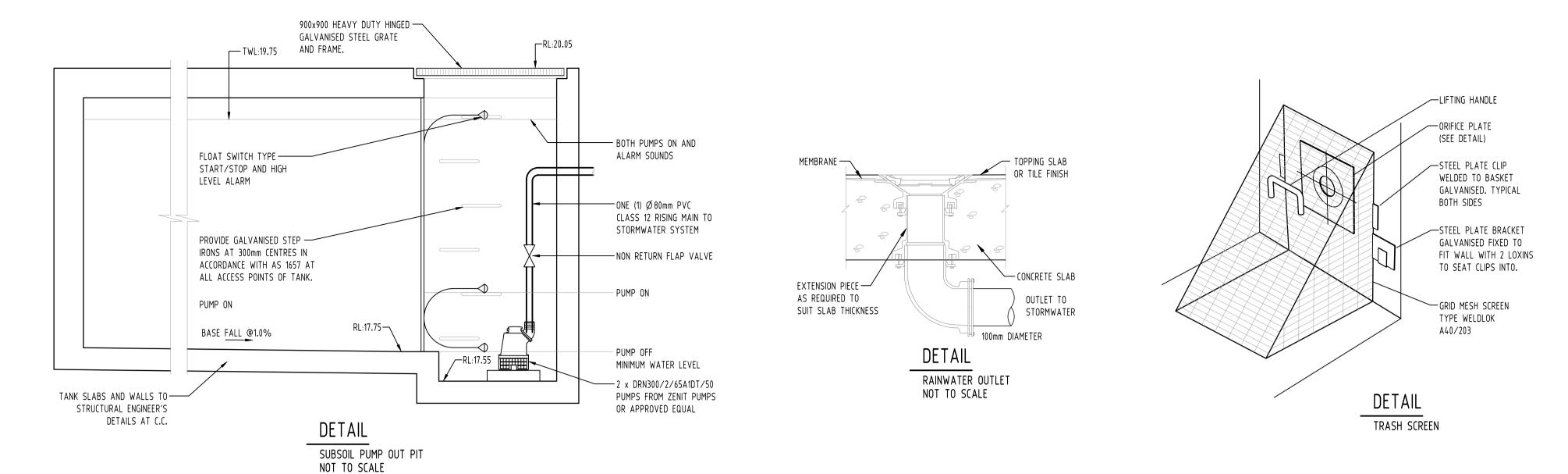
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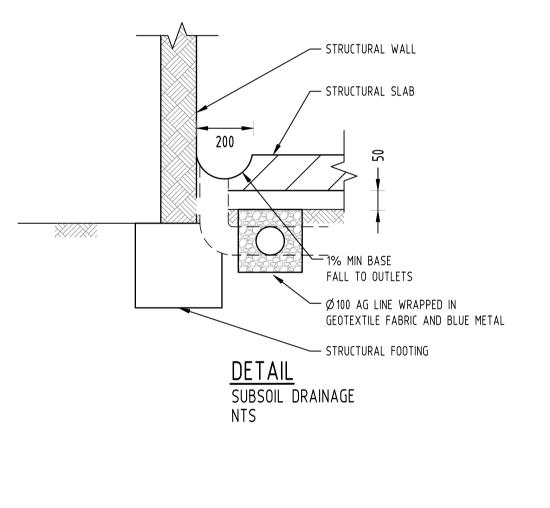
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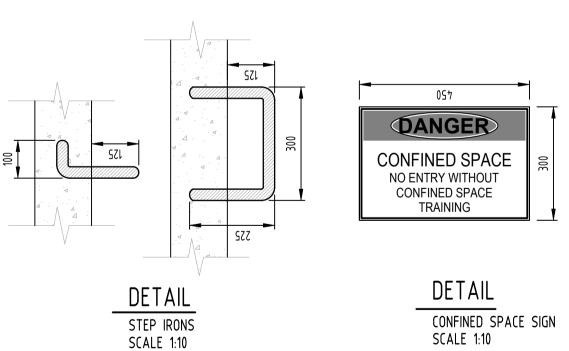


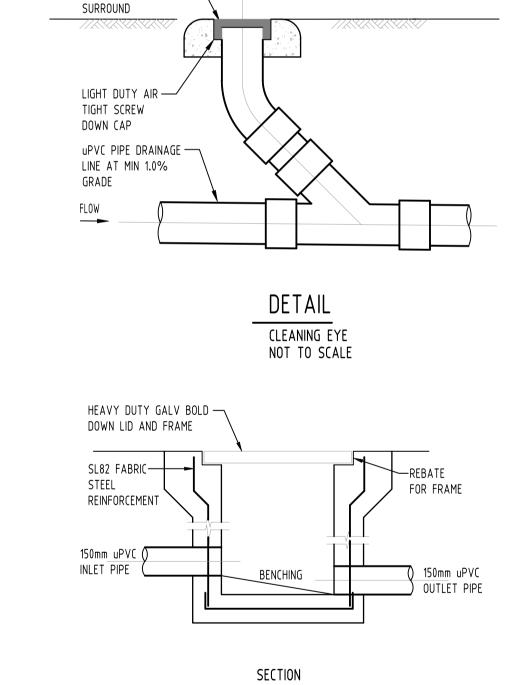
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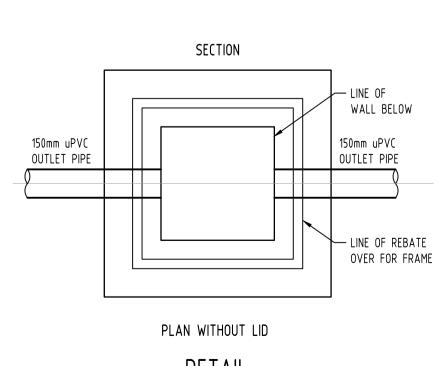






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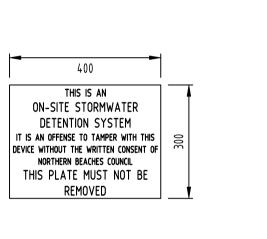
WITH CONCRETE



PLAN WITHOUT LID

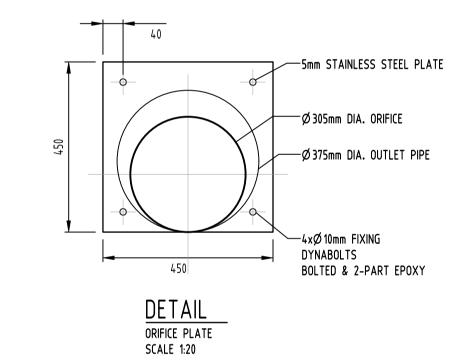
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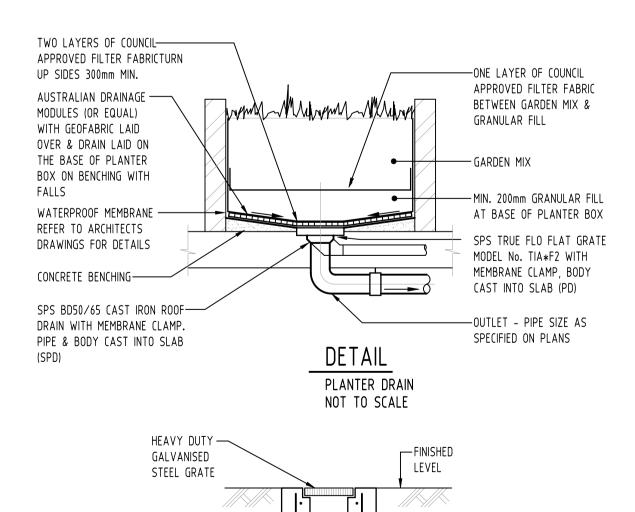
STORMWATER PIT NOT TO SCALE



DETAIL

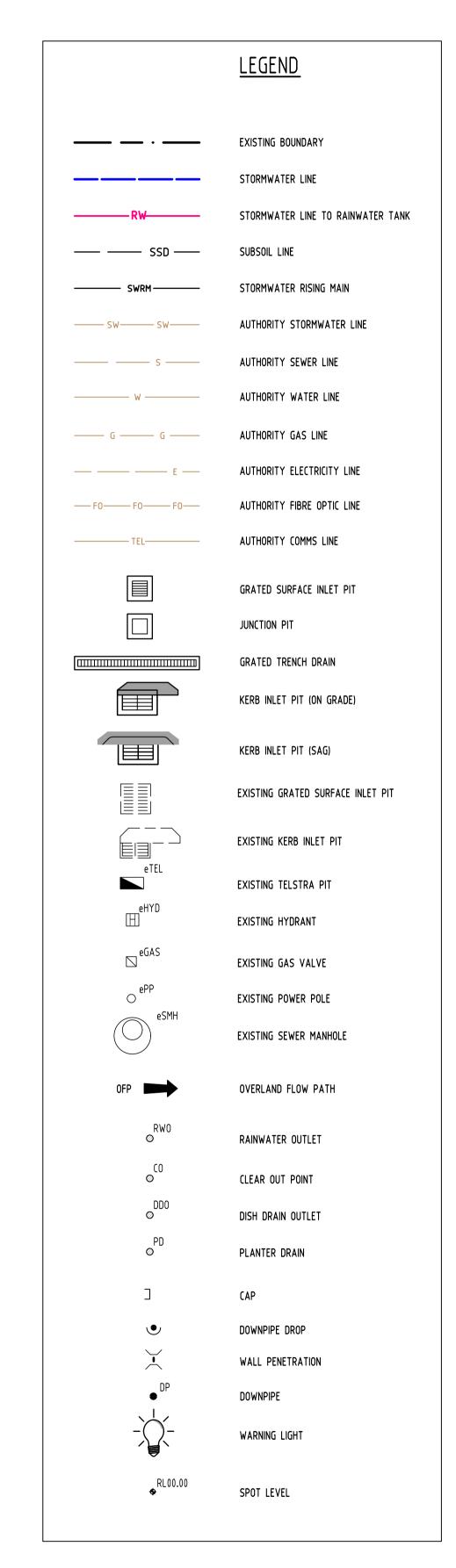
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NOT TO SCALE

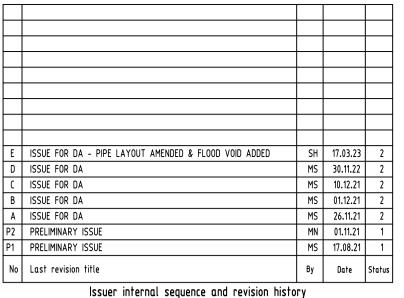






MINIMUM 1% GRADE—





1- preliminary 2- development application 3- construction certificate 4- tender 5- construction 6- other (specify)

Referenc	e Coordinatior	Drawing				
Discipline	Drawing Title an	d Number			Date	Rev.
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VERIFIED	SH	DATE	10.12.21	THIS DRAWING CONJUNCTION SPECIFICATION		D IN		
APPROVED	SH	DATE	10.12.21	CONSULTANTS	' DRAWINGS.			

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PROJECT

PROPOSED MIXED USE DEVELOPMENT
4 DELMAR PARADE & 812 PITTWATER ROAD,

DEE WHY

Drawing Title

STORMWATER CONCEPT DESIGN

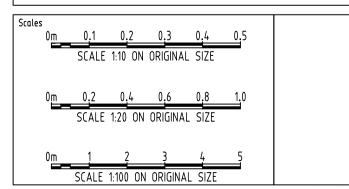
DETAILS SHEET SHEET 1 OF 2

Pro	oject No	Drawing No	Revision No
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Sheet	Scale	Grid	Datum
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Prawing Status

FOR APPROVAL

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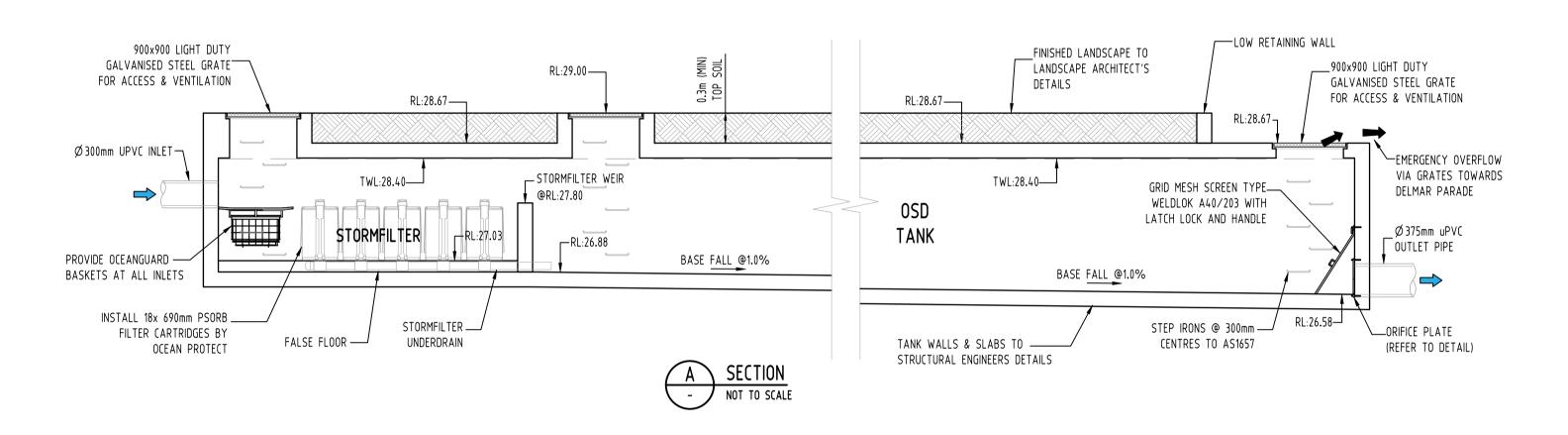


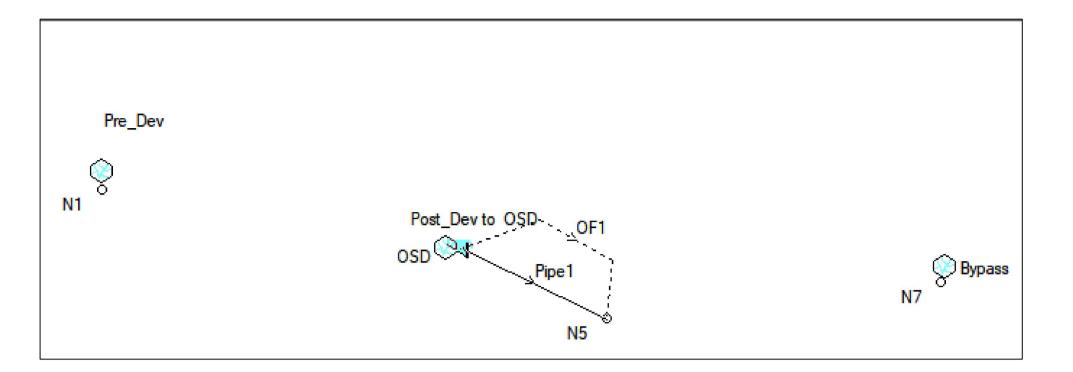
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AUSTRALIA
Chartered Professional Engineer PTY L
MEMBER
WHOLL

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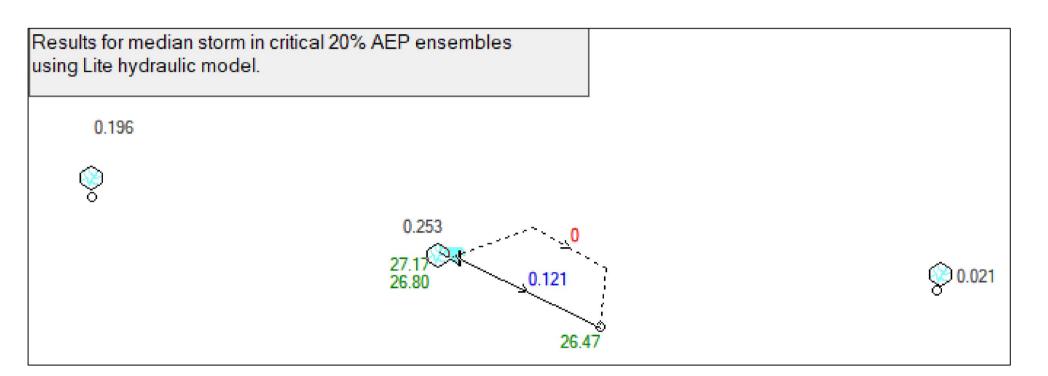
OSD TANK PLAN & DIMENSIONS (m)

SCALE 1:100

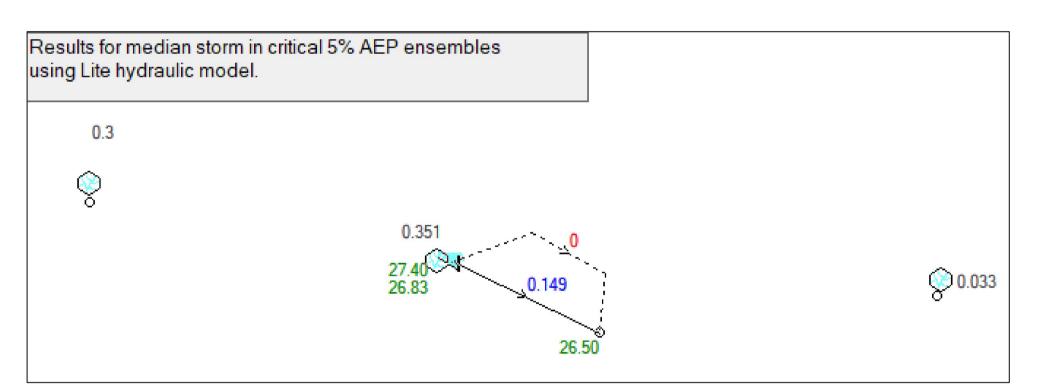




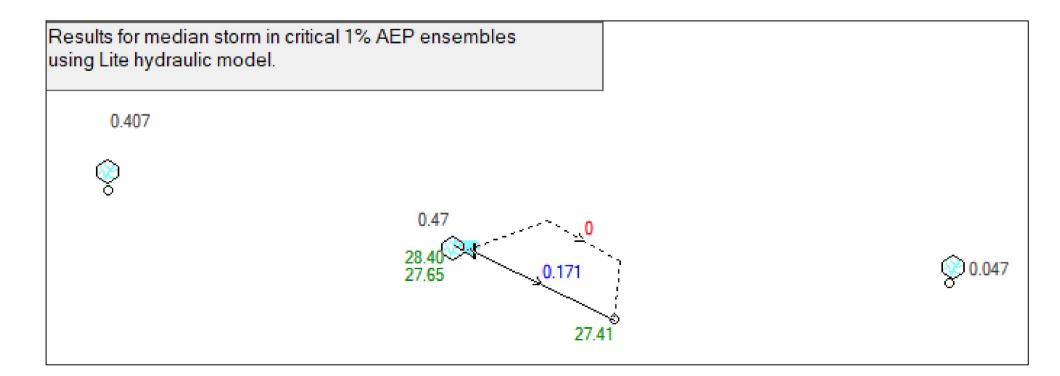
DRAINS MODEL SCHEMATIC



DRAINS RESULTS - 20% AEP



DRAINS RESULTS - 5% AEP



DRAINS RESULTS - 1% AEP

Ε	ISSUE FOR DA - PIPE LAYOUT AMENDED & FLOOD VOID ADDED	SH	17.03.23	2
D	ISSUE FOR DA	MS	30.11.22	2
C	ISSUE FOR DA	MS	10.12.21	2
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DESIGNED	MS	DATE	10.12.21	DECISION/CLA			

DATE 10.12.21

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PROCEEDING WITH THE WORK.

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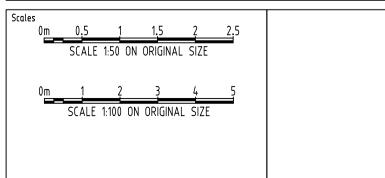
PROJECT PROPOSED MIXED USE DEVELOPMENT

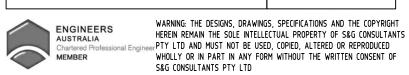
4 DELMAR PARADE & 812 PITTWATER ROAD, DEE WHY

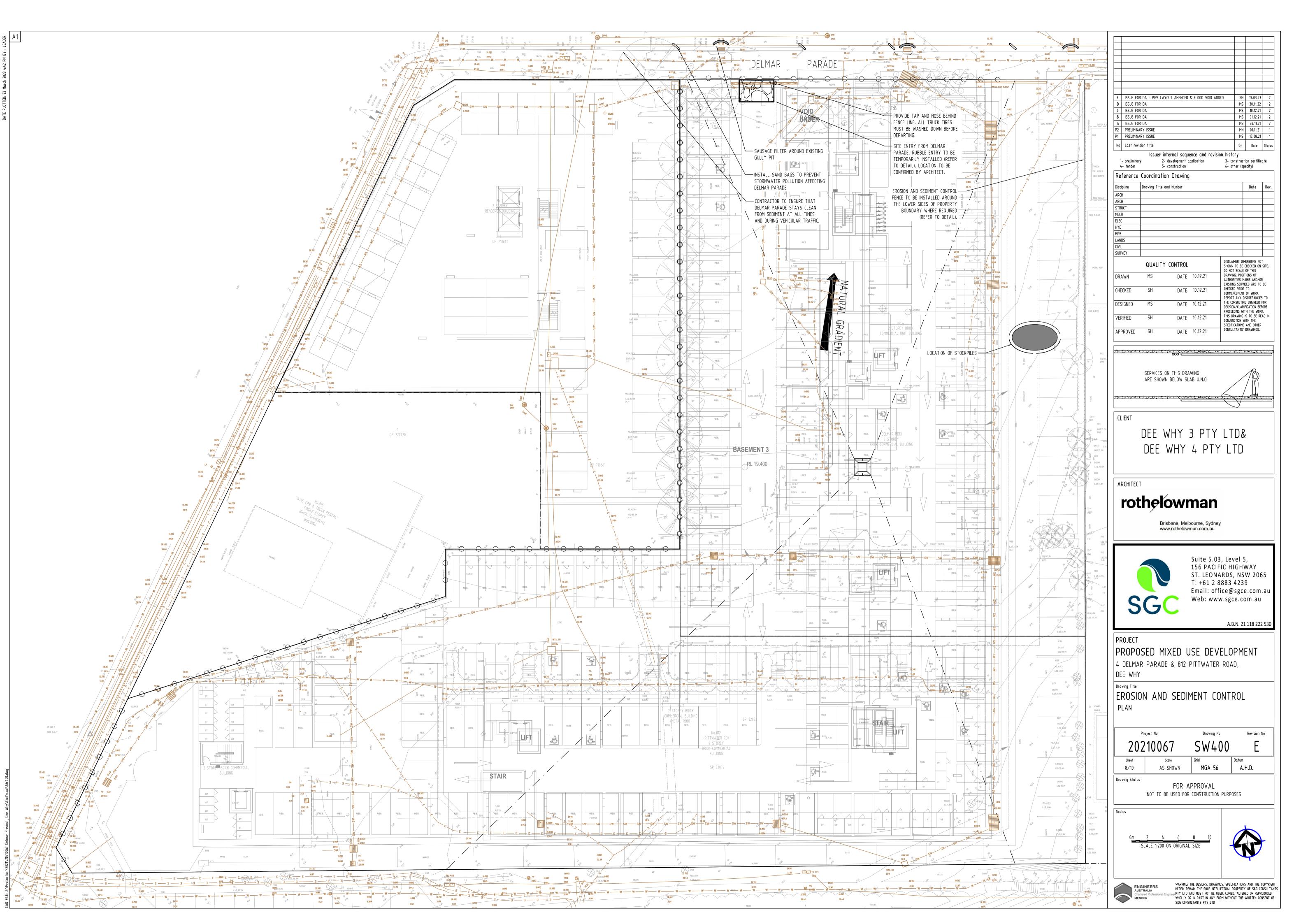
STORMWATER CONCEPT DESIGN DETAILS SHEET SHEET 2 OF 2

Project No		Drawing No	Revision No	
202	10067	SW301	Е	
Sheet	Scale	Grid	Datum	
7/10	AS SHOWN	MGA 56	A.H.D.	

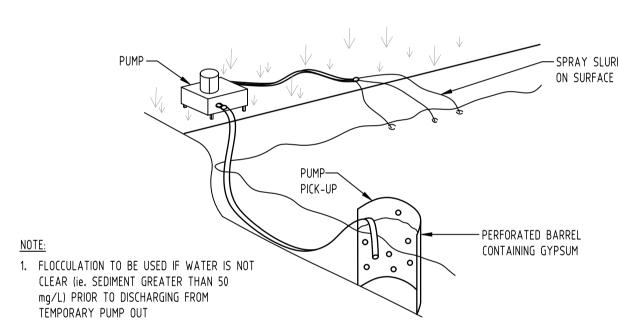
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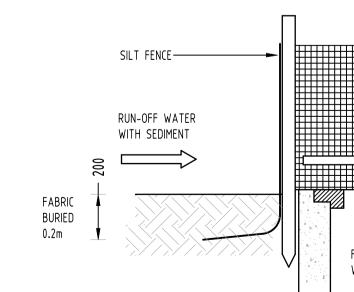






SAUSAGE FILTER





OVERFLOW ----

RUNOFF WATER — WITH SEDIMENT

SEDIMENT -

GRAVEL FILLED WIRE MESH —

OR GEOTEXTILE 'SAUSAGE'

TIMBER SPACER TO SUIT -

GEOTEXTILE INLET FILTER NOT TO SCALE

EROSION & SEDIMENTATION CONTROL

- 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.
- EXISTING DRAINS LOCATED WITHIN THE SITE SHALL ALSO BE ISOLATED BY SEDIMENT FENCING MATERIAL.
- NO PARKING OR STOCKPILING OF MATERIALS IS PERMITTED ON THE LOWER SIDE OF THE SEDIMENT FENCE.
- GRASS VERGES SHALL BE MAINTAINED AS MUCH AS PRACTICAL TO PROVIDE A BUFFER ZONE TO THE CONSTRUCTION SITE.
- 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.

TIMBER SPACER TO SUIT ___

KERB-SIDE INLET -

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.
- ALL DRAINAGE LAYOUT & DETAILS ARE DIAGRAMMATIC & INDICATIVE ONLY. ACTUAL LOCATION, SIZES, LEVELS & GRADES MAY ALTER WHEN DETAIL DESIGN WORKS ARE DOCUMENTED.

CLAY SOILS

-GRAVEL FILLED WIRE MESH

OR GEOTEXTILE 'SAUSAGE'

1 4 4 . 4 . 4 . 4 . . ,

FILTERED WATER

GRAVEL INLET FILTER (SAUSAGE)

NOT TO SCALE

- A SYSTEM SHALL BE INSTALLED TO EITHER:
- TRANSPORT STORMWATER RUNOFF WITH SUSPENDED SOLIDS FROM SITE VIA PUMP TRUCKS.
- 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

CONSTRUCTION NOTES:

INLET PIT

FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR

WIRE MESH LONGER THAT THE LENGTH OF THE

FILL THE SLEEVE WITH 25mm TO 50mm GRAVEL

FORM AN ELLIPTICAL CROSS-SECTION OF THE

MAINTAIN THE OPENING WITH SPACER BLOCKS

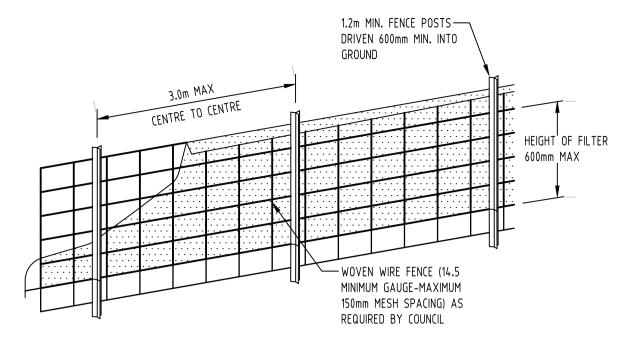
FORM A SEAL WITH THE KERBING AND PREVENT

TO ACT AS AN EMERGENCY SPILLWAY

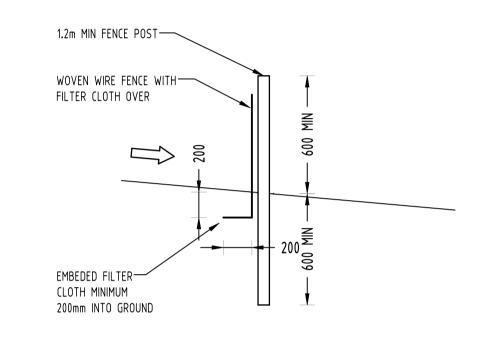
SEDIMENT BYPASSING THE FILTER

FIT TO ALL KERB INLETS AT SAG POINTS

KERB INLET LEAVING A 100mm GAP AT THE TOP



DIAGRAMMATIC VIEW

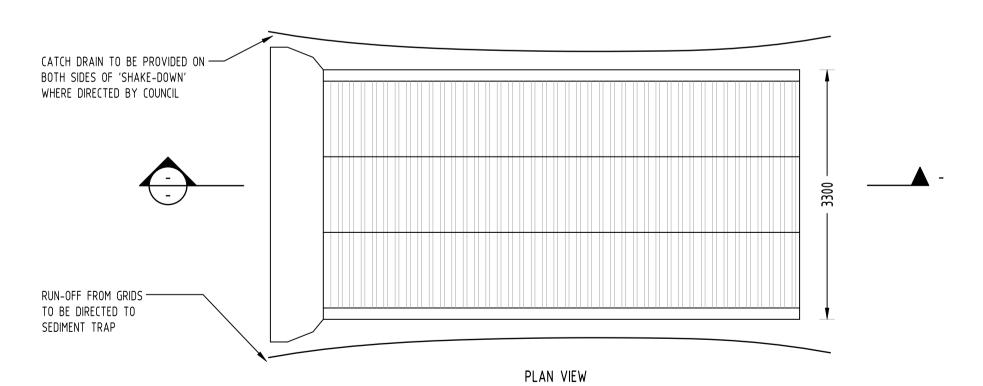


TYPICAL SECTION

SEDIMENT FENCE NOT TO SCALE

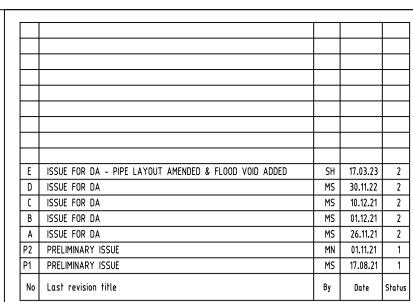
GEOTEXTILE INLET FILTER

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



3 OFF HUMES PRECAST CATTLE — GRID OR APPROVED EQUIVALENT $\mathcal{M}_{\mathcal{M}}$ 50 THICK GRANULAR BEDDING-

TYPICAL SECTION 'CATTLE GRID' ALTERNATIVE TEMPORARY CONSTRUCTION EXIT NOT TO SCALE



Issuer internal sequence and revision history

1- preliminar 4- tender		development ap	oplication	3- constru 6- other (s	ction certific specify)	ate
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PROJECT

PROPOSED MIXED USE DEVELOPMENT 4 DELMAR PARADE & 812 PITTWATER ROAD, DEE WHY

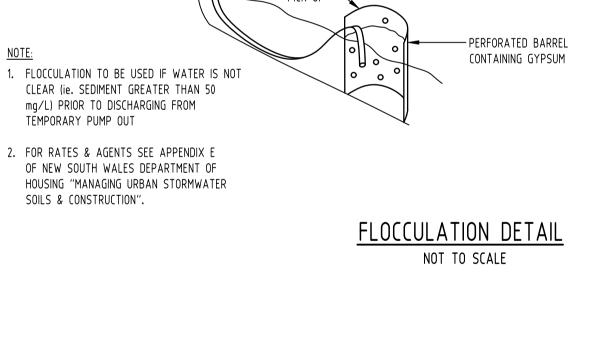
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Pr	oject No	Drawing No	Revision No
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Drawing Status FOR APPROVAL NOT TO BE USED FOR CONSTRUCTION PURPOSES

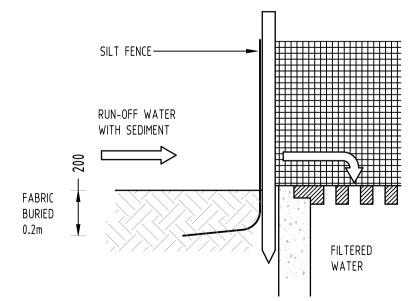
SCALE 1:100 ON ORIGINAL SIZE

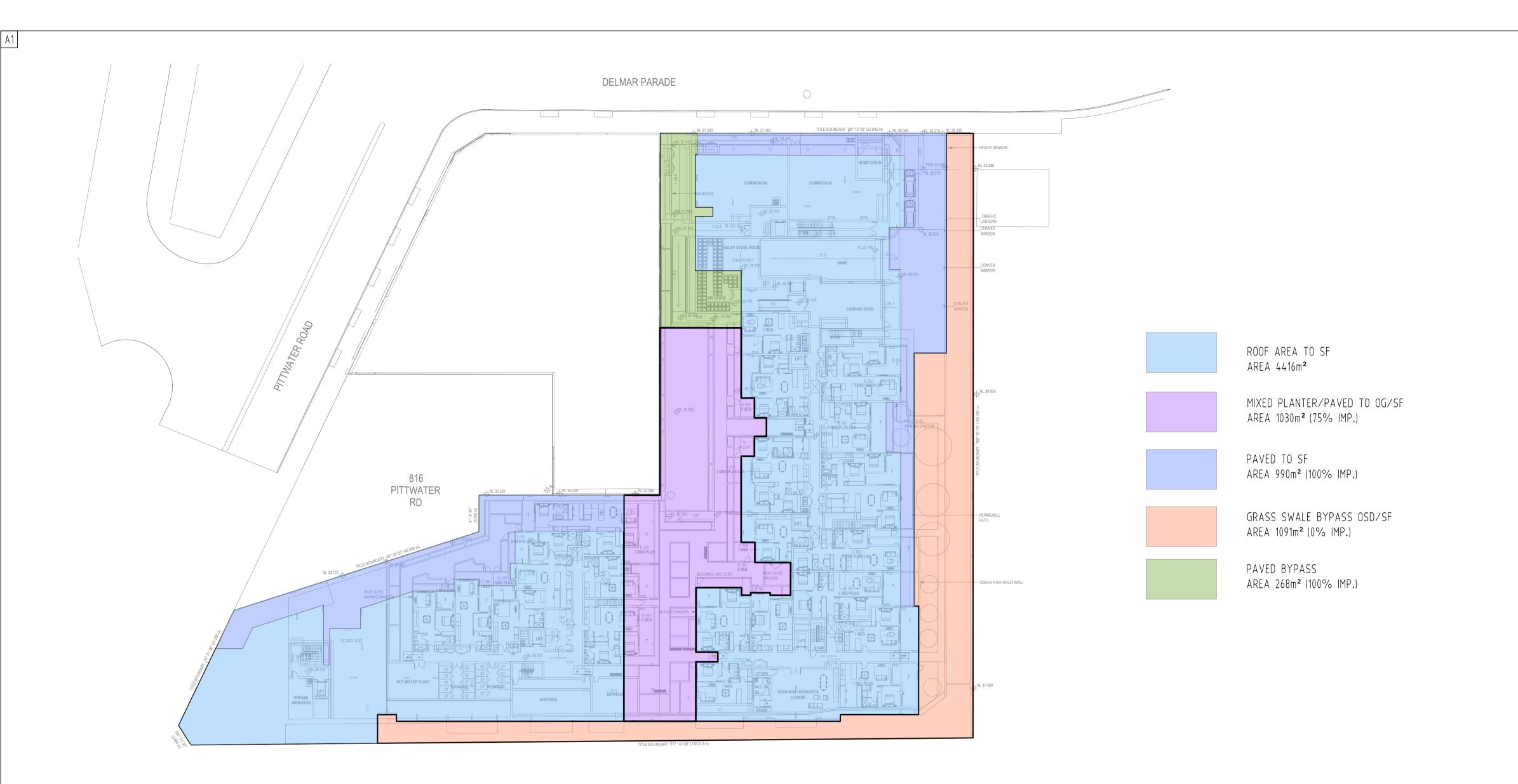
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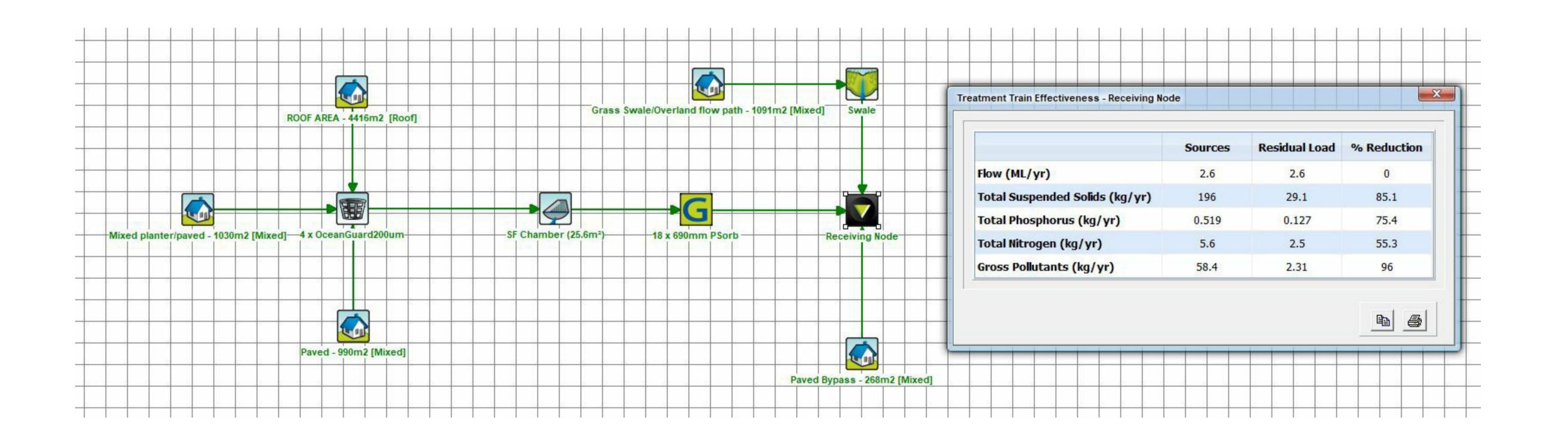


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D	ISSUE FOR DA	MS	30.11.22	2
C	ISSUE FOR DA	MS	10.12.21	2
В	ISSUE FOR DA	MS	01.12.21	2
Α	ISSUE FOR DA	MS	26.11.21	2
P2	PRELIMINARY ISSUE	MN	01.11.21	1
P1	PRELIMINARY ISSUE	MS	17.08.21	1
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PROJECT

PROPOSED MIXED USE DEVELOPMENT 4 DELMAR PARADE & 812 PITTWATER ROAD,

DEE WHY

STORMWATER CONCEPT DESIGN
MUSIC CATCHMENT PLAN

Pr	oject No	Drawing No	Revision No
20210067		SW500	Е
Sheet	Scale	Grid	Datum
10/10	1:400 @ A1	MGA 56	A.H.D.

Drawing Status

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Scales

