



PROPOSED RESIDENTIAL DEVELOPMENT 263-267 CANTERBURY ROAD, CANTERBURY STORMWATER CONCEPT DESIGN



LOCALITY PLAN
NOT TO SCALE
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DRAWING REGISTER			
SHEET No.	No.	TITLE	REV
1	SW100	COVER SHEET	A
2	SW200	STORMWATER CONCEPT DESIGN - BASEMENT 03 PLAN	A
3	SW201	STORMWATER CONCEPT DESIGN - GROUND FLOOR PLAN	A
4	SW202	STORMWATER CONCEPT DESIGN - ROOF PLAN	A
5	SW300	STORMWATER CONCEPT DESIGN - DETAILS SHEET	A
6	SW400	EROSION AND SEDIMENT CONTROL - PLAN AND DETAILS	A



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:

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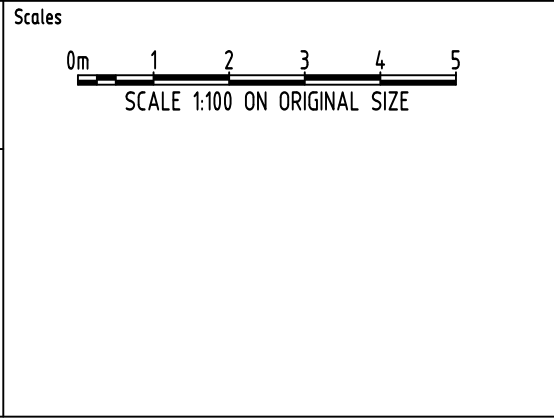
MR MING LI

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

Issue internal sequence and revision history				
Issue	Last revision title	by	Date	Status
1-preliminary				
2-development application				
3-construction				
4-tender				
5-construction				
6-other				

QUALITY CONTROL		DATE	
DRAWN	FZ	DATE	20.08.18
CHECKED	SH	DATE	20.08.18
DESIGNED	FZ	DATE	20.08.18
VERIFIED	SH	DATE	20.08.18
APPROVED	SH	DATE	20.08.18

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NSW reg. no. 7542

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SGC
Engineering Value

1. b

PROJECT
PROPOSED RESIDENTIAL DEVELOPMENT
263-267 CANTERBURY ROAD, CANTERBURY

Drawing Status
FOR APPROVAL
NOT TO BE USED FOR CONSTRUCTION PURPOSES

Drawing Title
STORMWATER CONCEPT DESIGN
BASEMENT 03 PLAN

Project No
20180141

Drawing No
SW200

Revision No
A

Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	2 of 6	1:100 @ A1

INSTALL WARNING FLASH LIGHT TO PROVIDE INDICATION OF PUMP FAILURE.

PUMPOUT PIT CONTROL BOX TO MANUFACTURERS SPECIFICATIONS. LOCATIONS TO BE CONFIRMED WITH ARCHITECT.

STORMWATER RISING MAIN

Ø80 mm CLASS 12 UPVC

SUBSOIL PUMP OUT PIT COMPLETE WITH 2x SUBMERSIBLE PUMPS WITH DUTY OF 10L/s AT 13.0m HEAD
VOLUME REQUIRED: 3m³
VOLUME PROVIDED: 3.6m³
INTERNAL AREA: 3m²
HEIGHT: 1.2m
RL:-3.27
TWL:-3.57
IL:-4.77

OUTLINE OF BOUNDARY

SUBSOIL DESIGN CALCS:

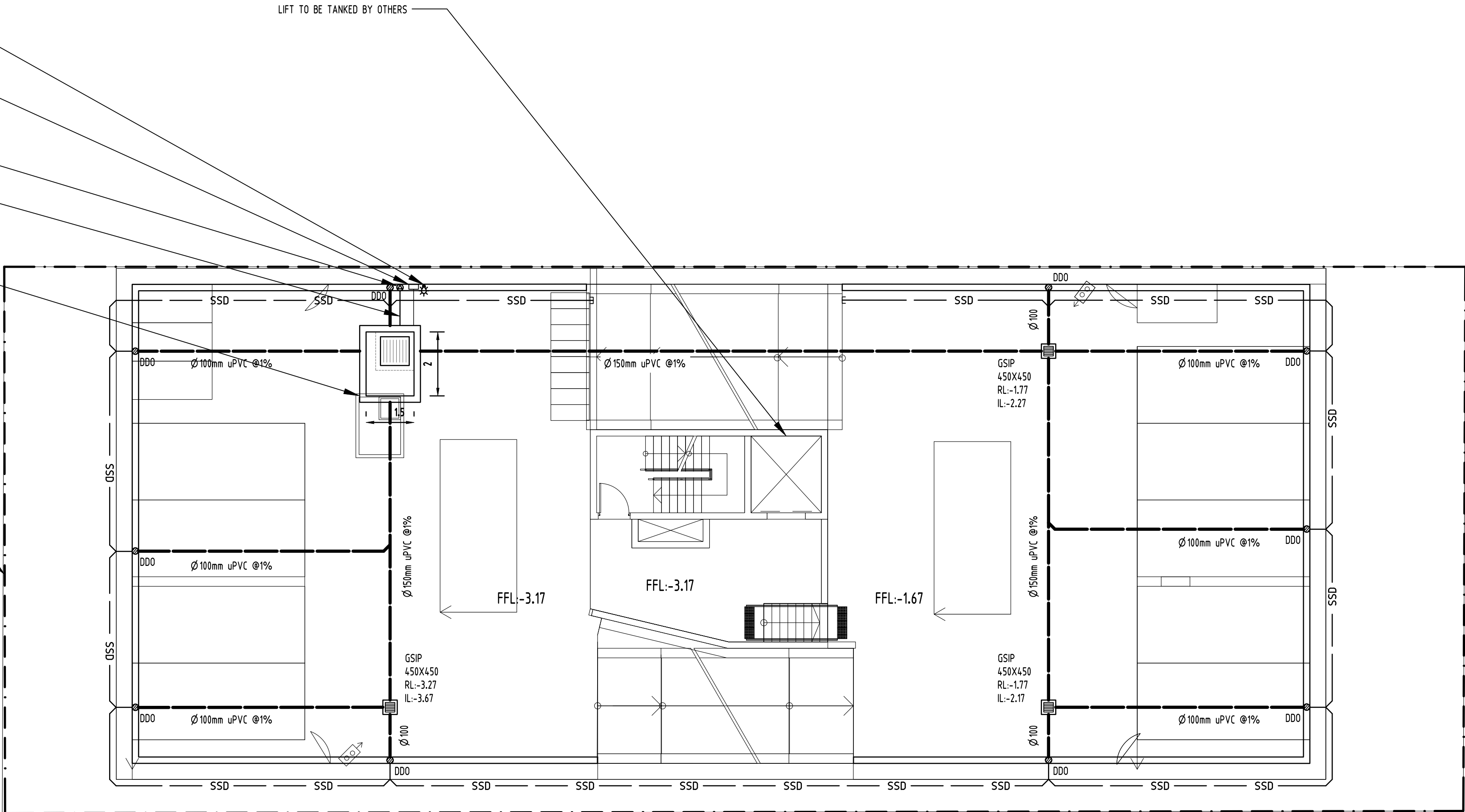
100yr 2hr ARI STORM = 40.7mm/hr
ARI x 2 = 81.4mm
AREA OF DRIVEWAY
RAMP UNCOVERED = 43m²

VOLUME OF RUNOFF
V = A x d
= 43 x (81.4 / 1000)
= 3.50m³

VOLUME PUMPED IN 30 MINUTES
= 18m³

WET WELL STORAGE
MAXIMUM OF:
* VOLUME OF RUNOFF - VOLUME PUMPED
* 3m³

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



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

Issued internal sequence and revision history			
1-preliminary	2-development application	3-construction certificate	4-tender
5-construction	6-other		

ENGINEERS AUSTRALIA Chartered Professional Engineer MEMBER			
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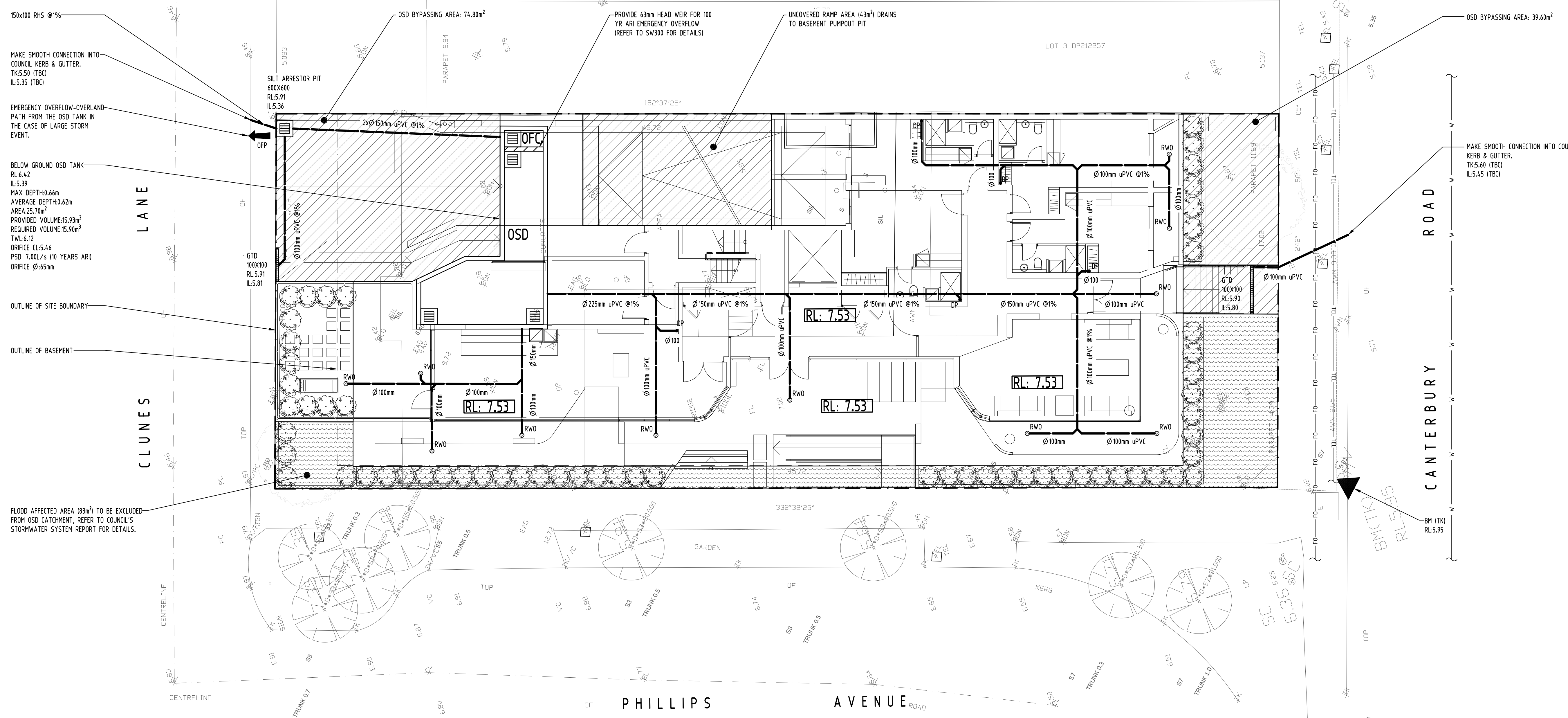
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0m	1 2 3 4 5
SCALE 1:100 ON ORIGINAL SIZE	

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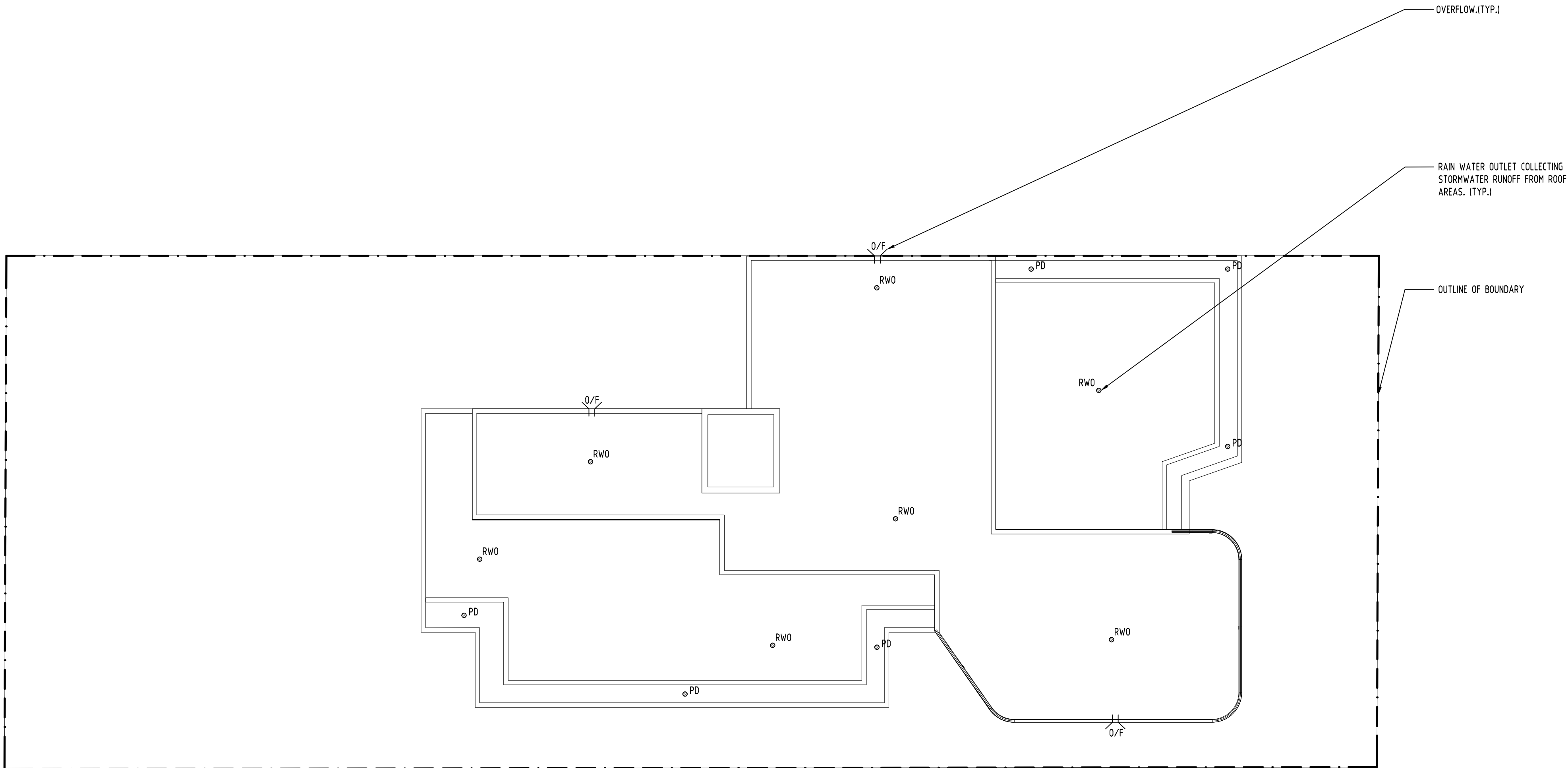
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PROJECT		
PROPOSED RESIDENTIAL DEVELOPMENT		
263-267 CANTERBURY ROAD, CANTERBURY		
Grid	Datum	Sheet
-	A.H.D.	3 of 6
Scale (at original size)		1:100 @ A1
Drawing Status		
FOR APPROVAL		
NOT TO BE USED FOR CONSTRUCTION PURPOSES		
Drawing Title		
STORMWATER CONCEPT DESIGN		
GROUND FLOOR PLAN		
Project No	Drawing No	Revision No
20180141	SW201	A



OSD CALCULATIONS TABLE:

LOT AREA (m2)	STORM (YR)	POST-DEV FLOW (m3/s)	PIPE OUTFLOW (m3/s)	WEIR OUTFLOW (m3/s)	RAMP BYPASSING (m3/s)	TOTAL PSD (m3/s)	OSD VOLUME (m3)
696	10	0.029	0.007	N/A	0.004	0.011	15.90



				Reference Coordination Drawing			
				Discipline	Drawing Title and Number	Date	Rev.
				ARCH			
				ARCH			
				STRUCT			
A	SUBMISSION TO COUNCIL			FZ	29.08.2018	2	
P2	PRELIMINARY			FZ	29.08.2018	1	
P1	PRELIMINARY			FZ	20.08.2018	1	
Issue	Last revision title			by	Date	Status	
Issuer internal sequence and revision history 1-preliminary 4-tender 2-development application 5-construction 3-construction certificate 6-other							
				LANDS			
				CIVIL			
				SURVEY			



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Scales

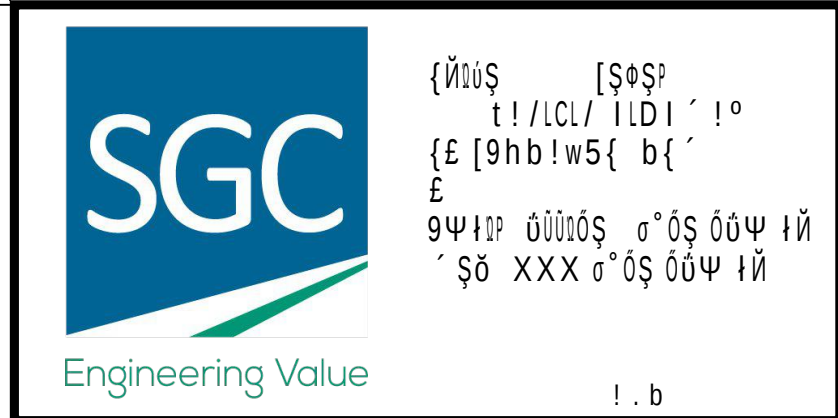


SCALE 1:100 ON ORIGINAL SIZE

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PROJECT
PROPOSED
RESIDENTIAL DEVELOPMENT
263-267 CANTERBURY ROAD, CANTERBURY

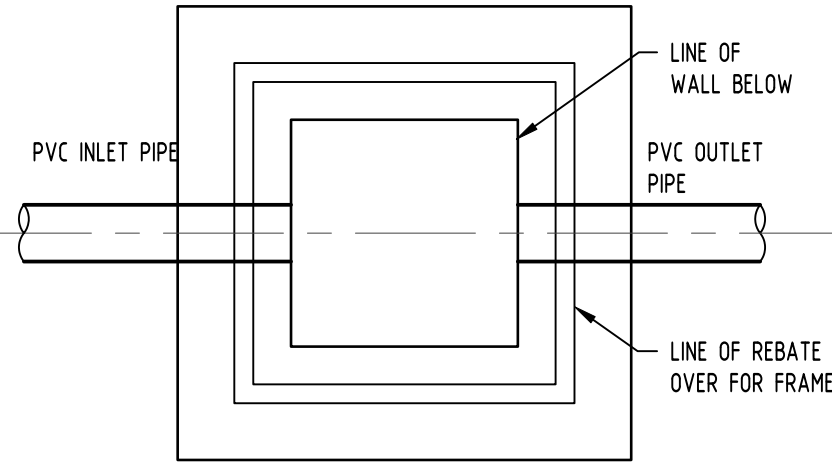
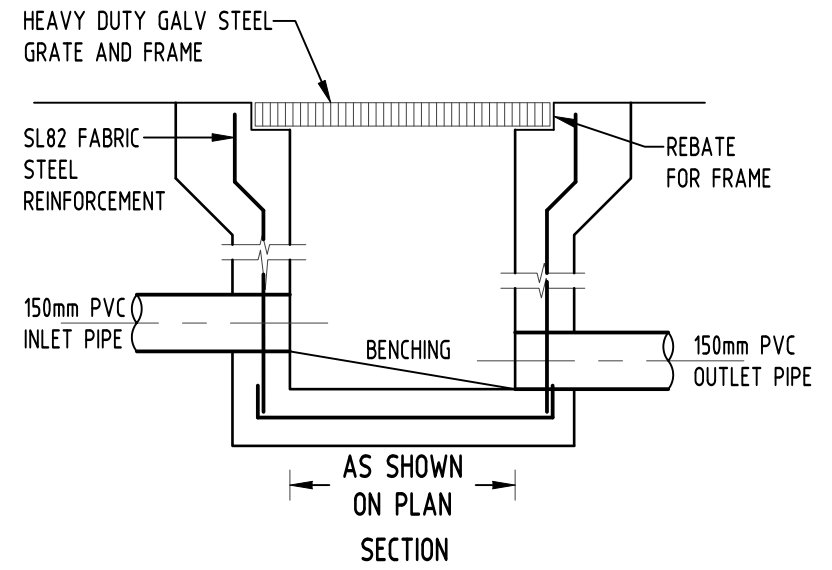
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-	A.H.D.	4 of 6	1:100 @ A1

Drawing Status **FOR APPROVAL**
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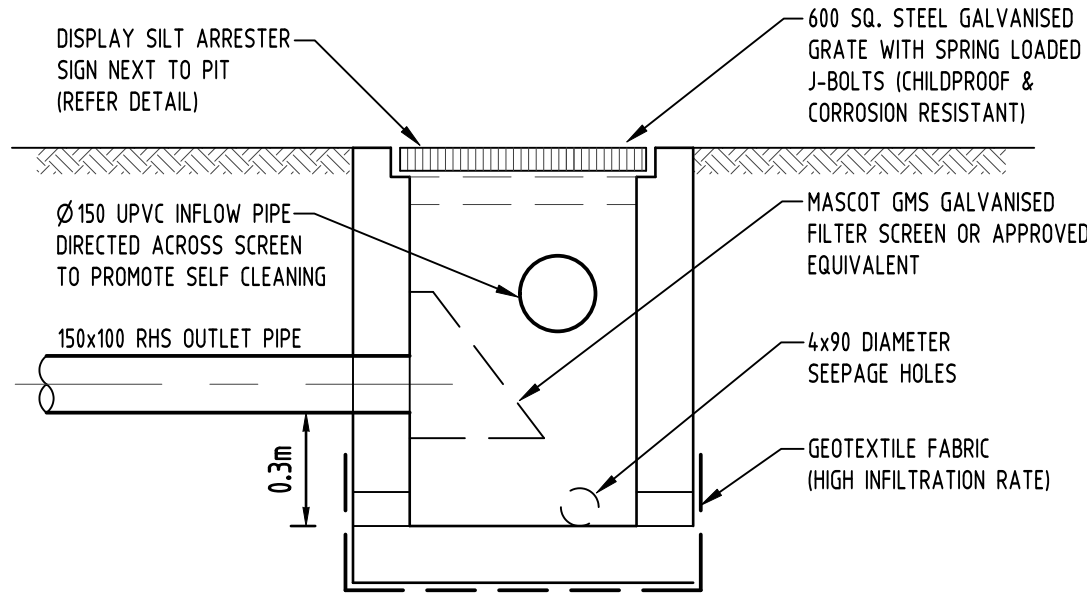
STORMWATER CONCEPT DESIGN
ROOF PLAN

Project No	Drawing No	Revision No
20180141	SW202	A

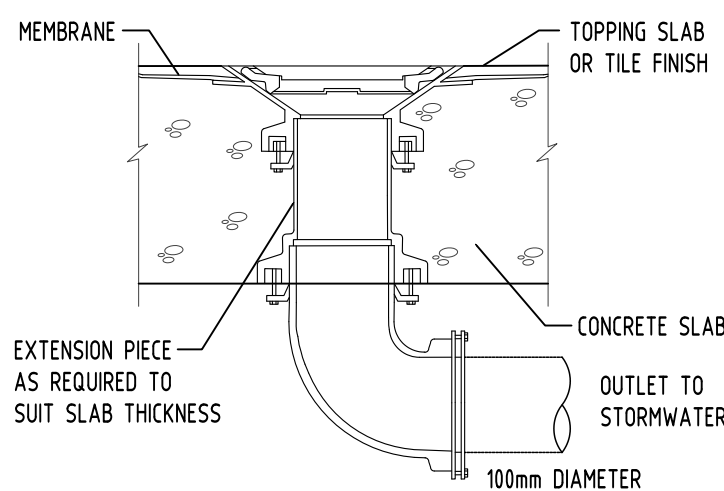




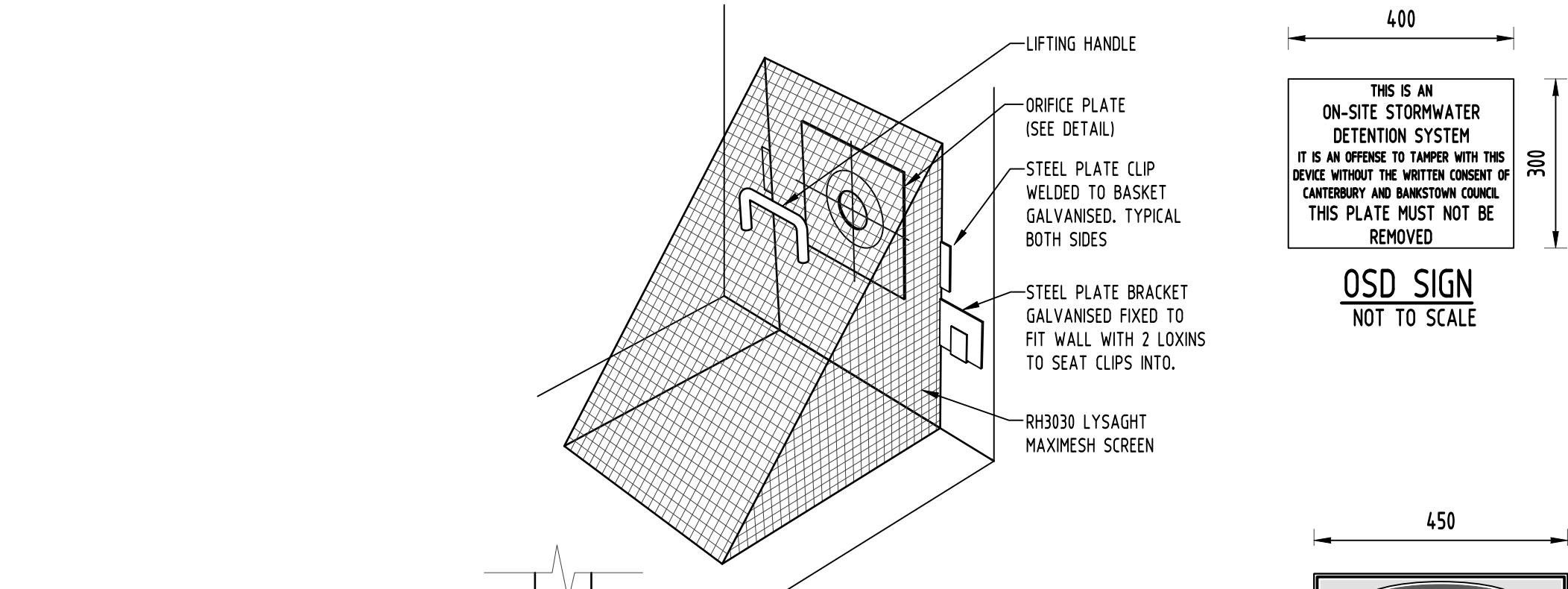
STORMWATER PIT
SCALE 1:20



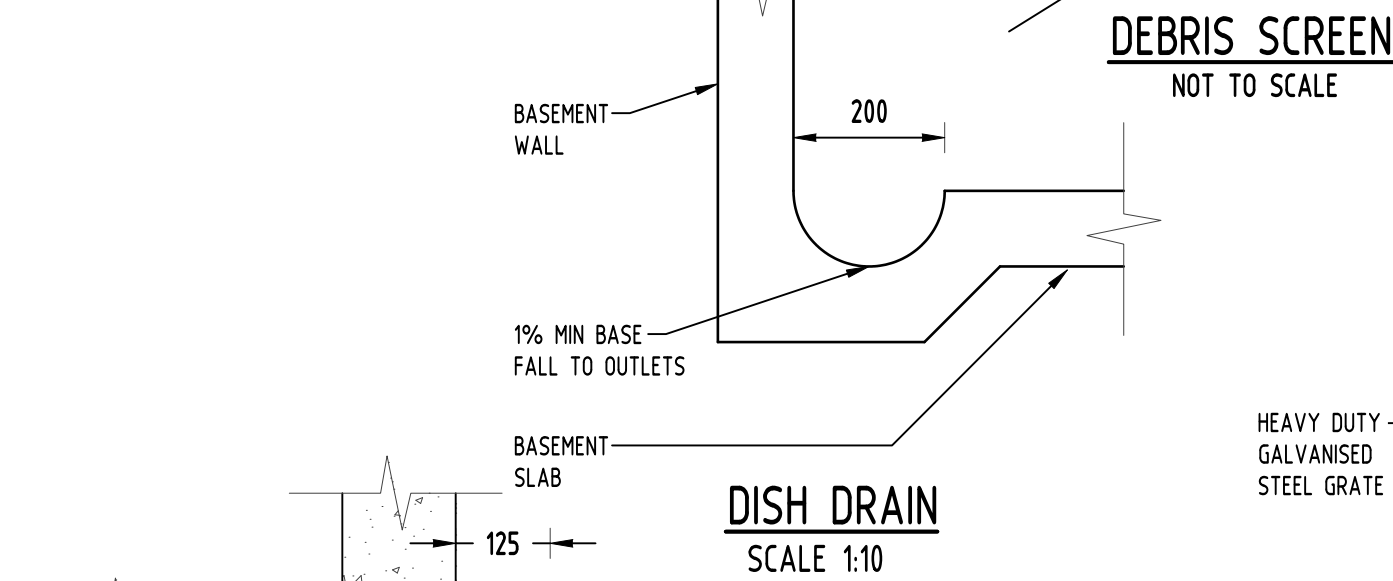
SILT ARRESTOR PIT
NOT TO SCALE



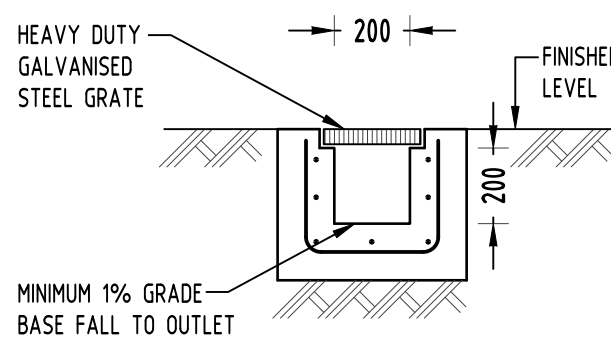
RAINWATER OUTLET
NOT TO SCALE



OSD SIGN
NOT TO SCALE

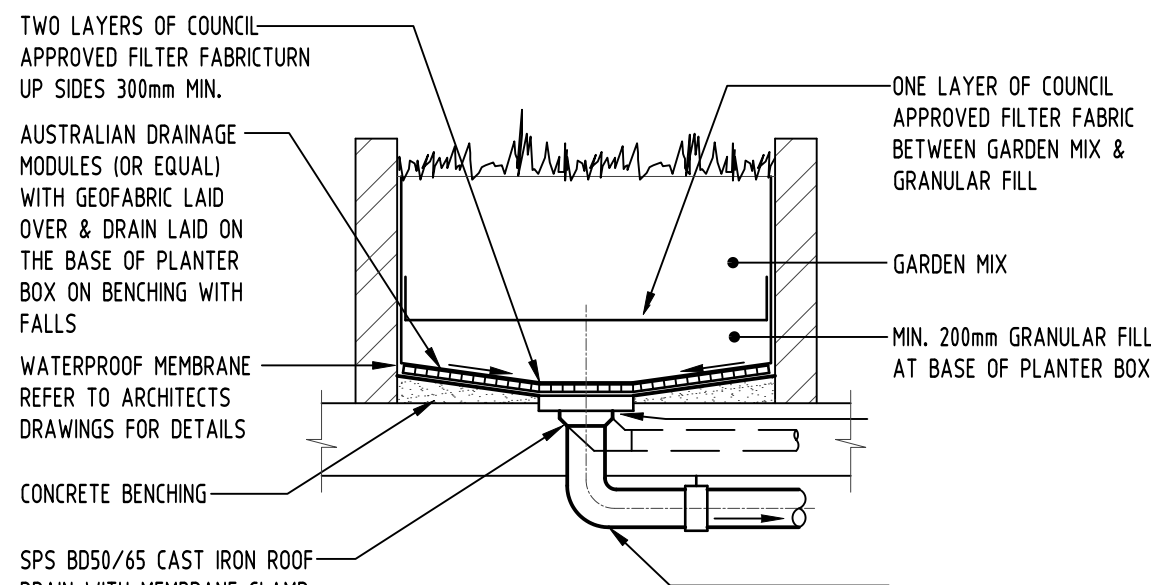


DISH DRAIN
SCALE 1:10

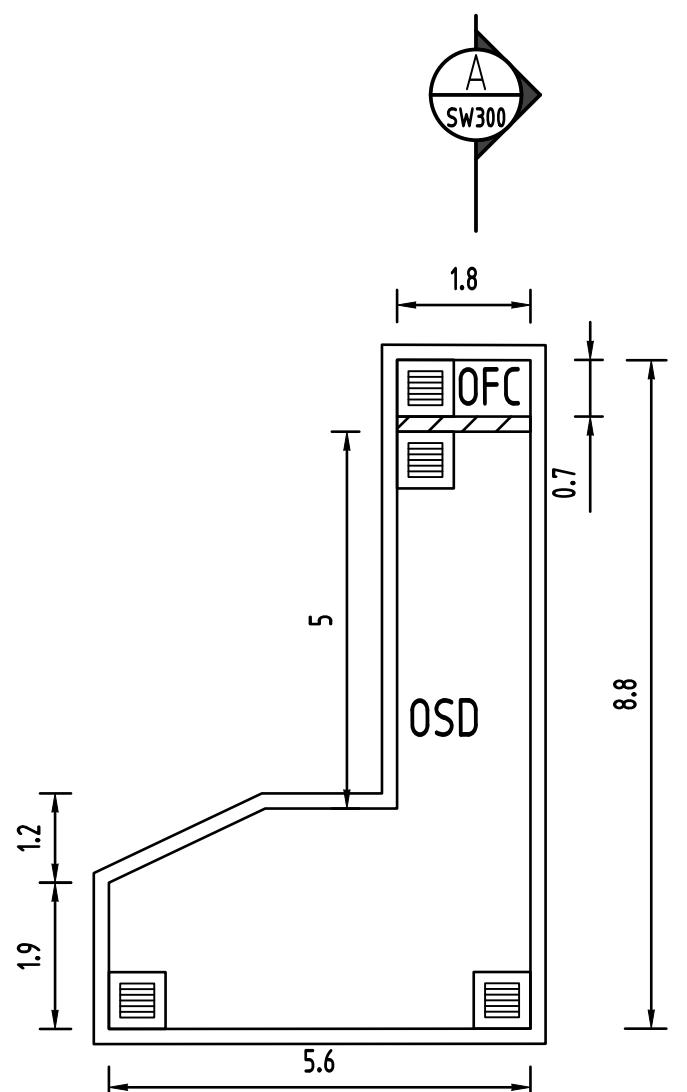


GRATED TRENCH DRAIN
NOT TO SCALE

STEP IRONS
SCALE 1:10



PLANTER DRAIN DETAIL
SCALE 1:20



OSD PLAN
NOT TO SCALE

DESIGN NOTES:

THE SITE IS LOCATED IN CANTERBURY AND BANKSTOWN COUNCIL. THE DESIGN IS BASED ON CANTERBURY COUNCIL'S DCP.

TOTAL SITE AREA = 779m². THE FLOOD AFFECTED AREA (83m²) SHOULD BE EXCLUDED FROM OSD CALCULATION.
BYPASS AREA = 114.4m² (16.44% OF SITE AREA)

THE OSD STORAGE SYSTEM WILL BE BELOW GROUND OSD TANK.

OSD WAS DESIGNED USING "DRAINS" SOFTWARE. OSD SHALL BE DESIGNED IN 10 YR ARI EVENT, AND PROVIDE A WEIR TO DIRECT THE 100 YR DISCHARGE.

HEAD OF OVERFLOW WEIR = 63mm

PSD SHALL BE LIMITED TO 150L/s/ha IN 10 YR ARI EVENT.

PSD_{10YR} = 150 x 779 / 10000

PSD_{10YR} = 11.69L/s

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 JOINTS

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 WELDOK 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 DAYS

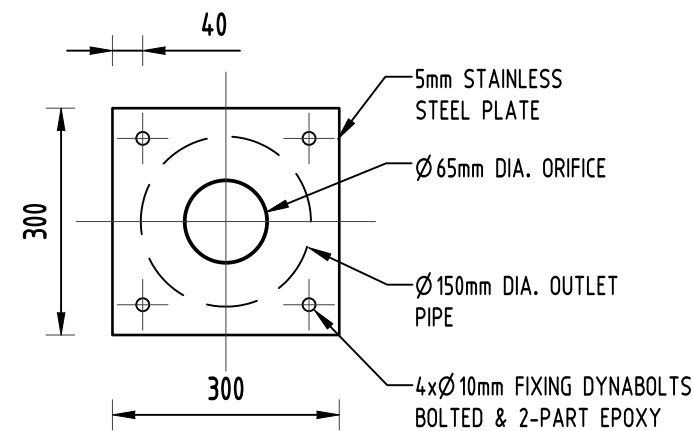
ISOLATED JOINTS TO BE PROVIDED TO ISOLATE CONCRETE PAVEMENTS FROM PITS

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

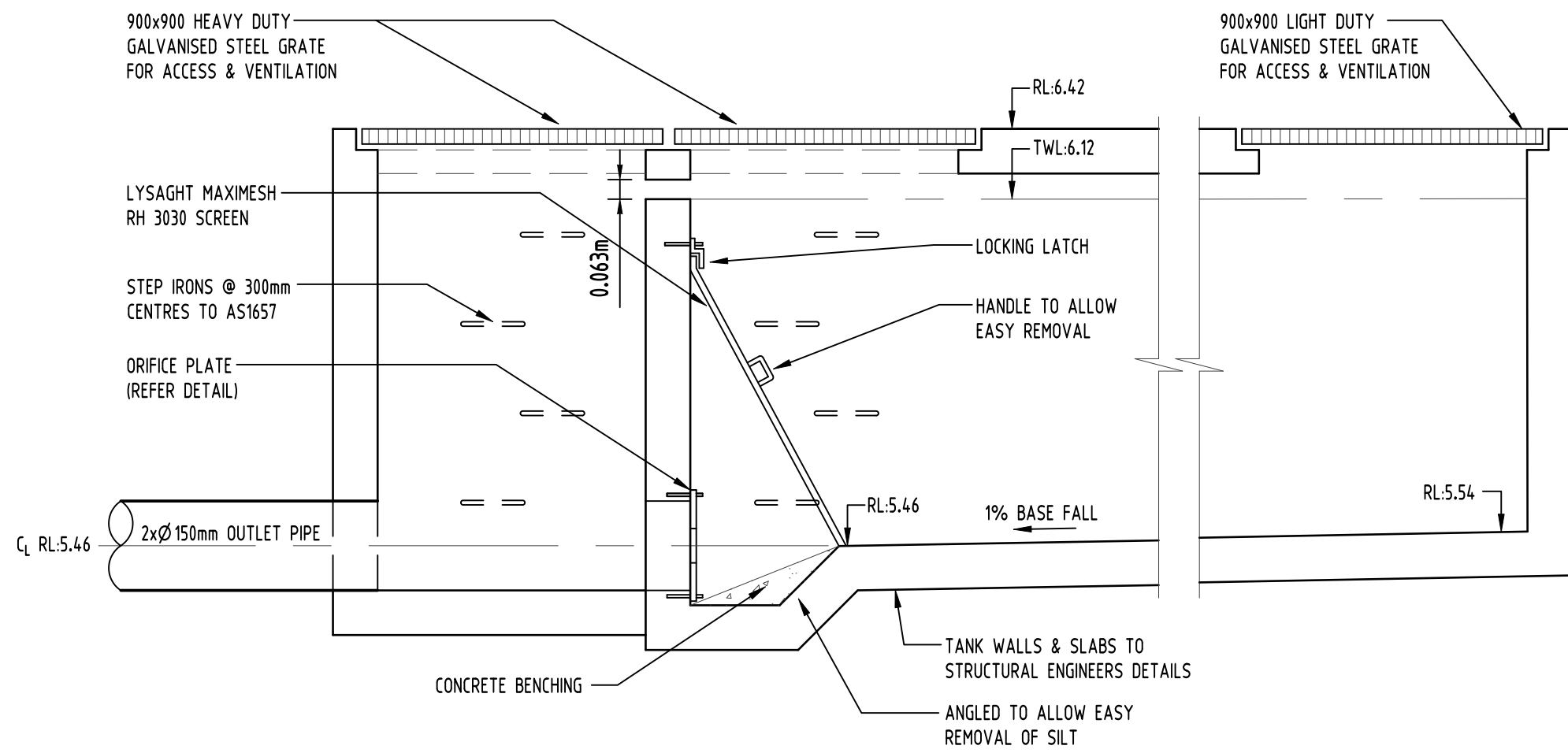
STORMWATER DRAINAGE CONNECTIONS TO THE MAIN SYSTEM SHALL BE TO THE REQUIREMENTS AND THE SATISFACTION OF LOCAL COUNCIL

LEGEND:

- STORMWATER LINE
- SSD SUBSOIL LINE
- SWRM STORMWATER RISING MAIN
- FO AUTHORITY FIBRE OPTIC LINE
- W AUTHORITY WATER LINE
- TEL AUTHORITY COMMS LINE
- GRATED SURFACE INLET PIT
- RWO RAINWATER OUTLET
- DDO DISH DRAIN OUTLET
- PD PLANTER DRAIN
- CAP
- DP DOWNPIPE



ORIFICE PLATE - OSD
NOT TO SCALE



SECTION
NOT TO SCALE

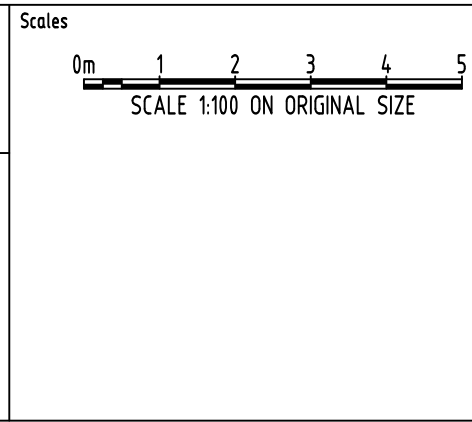


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				ARCH			
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						FIRE	
Issuer internal sequence and revision history							LANDS
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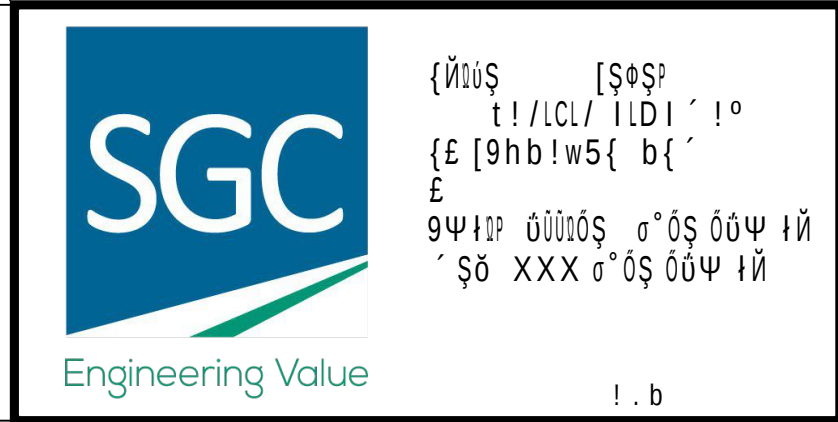
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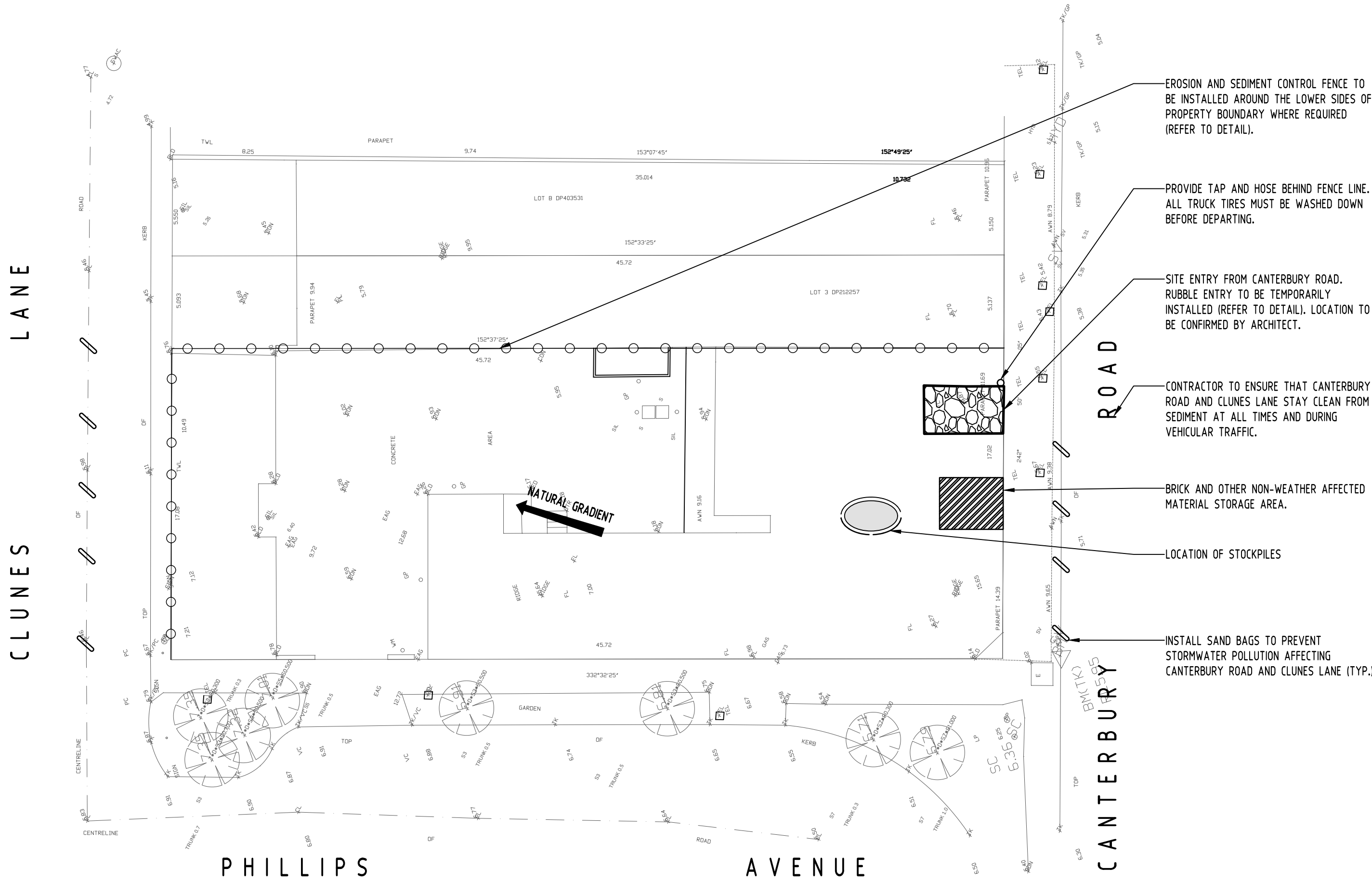


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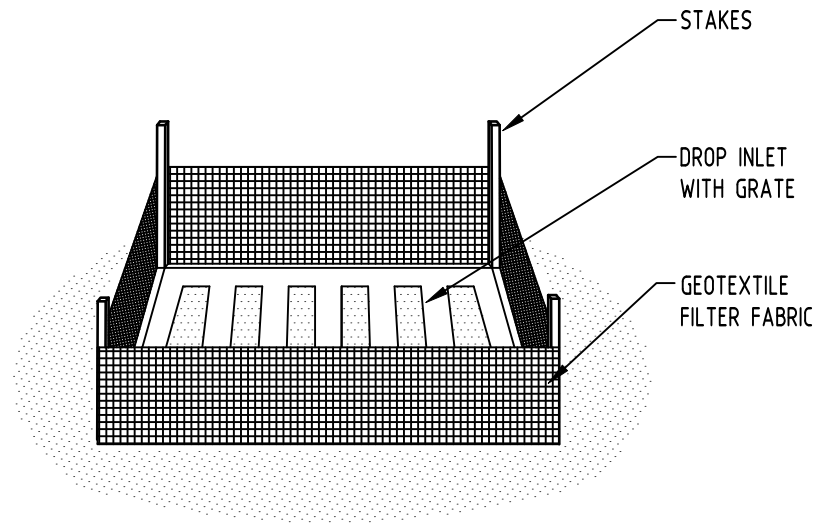
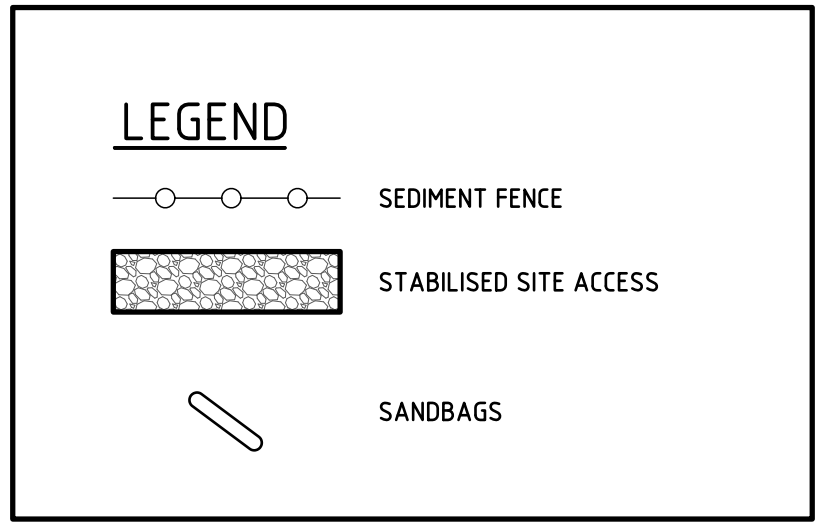
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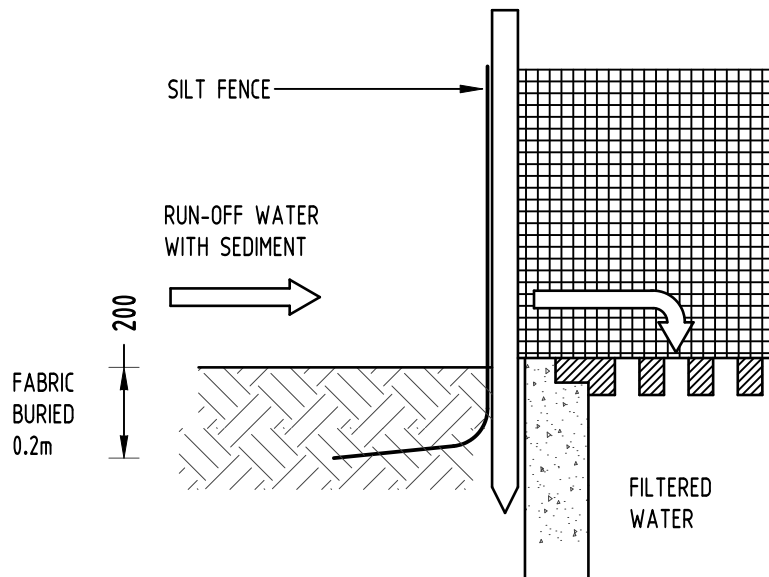
PROJECT PROPOSED RESIDENTIAL DEVELOPMENT 263-267 CANTERBURY ROAD, CANTERBURY			
Grid	Datum	Sheet	Scale (at original size)
-	A.H.D.	5 of 6	1:100 @ A1
Drawing Status NOT TO BE USED FOR CONSTRUCTION PURPOSES		Drawing Title STORMWATER CONCEPT DESIGN DETAILS SHEET	
Project No	Drawing No	Revision No	
20180141	SW300	A	



EROSION AND SEDIMENT CONTROL PLAN
SCALE 1:200

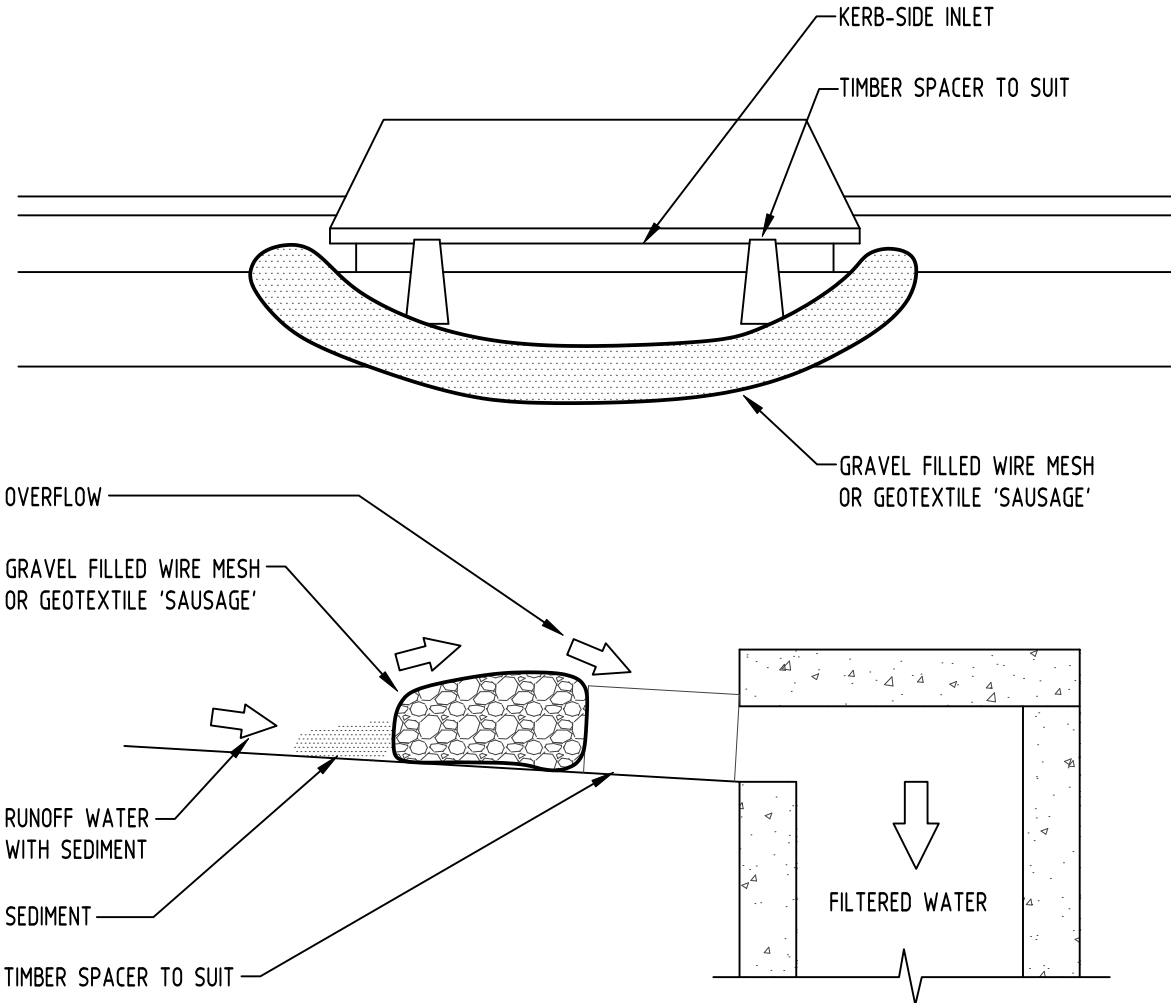


GEOTEXTILE INLET FILTER
NOT TO SCALE



EROSION & SEDIMENTATION CONTROL
NOTES

- 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.



GRAVEL INLET FILTER (SAUSAGE)
NOT TO SCALE

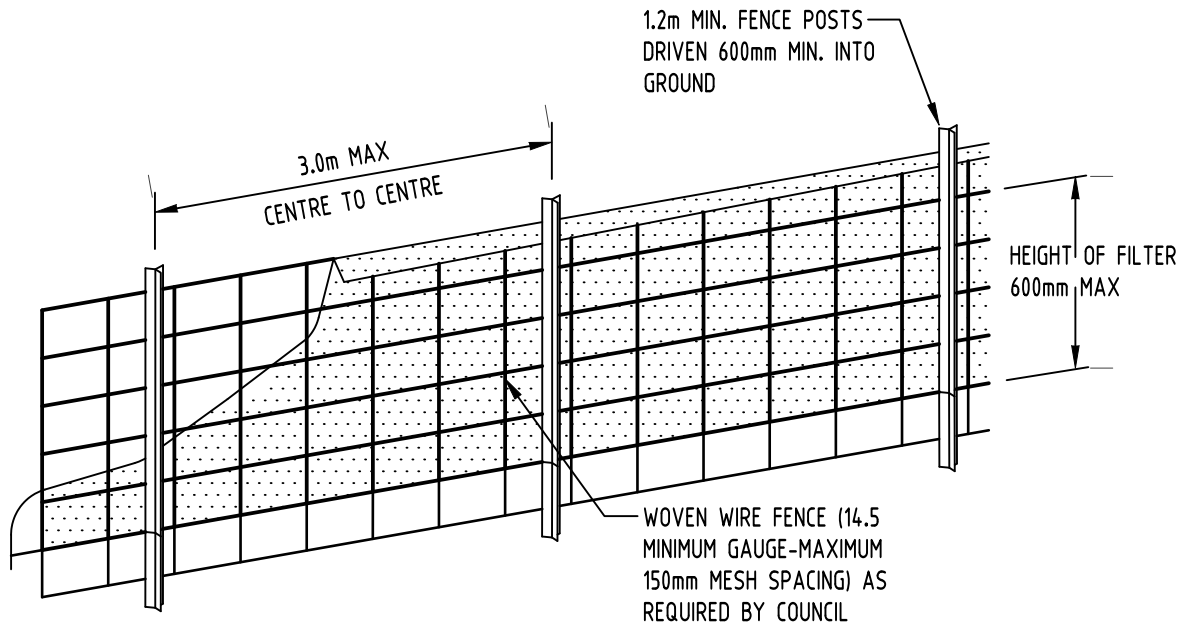
GENERAL NOTES

- 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.

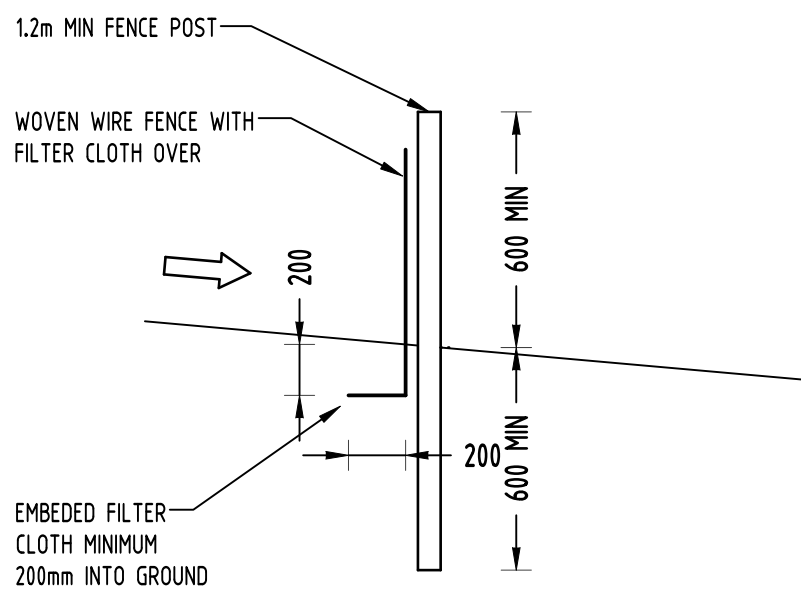
CLAY SOILS

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



DIAGRAMMATIC VIEW

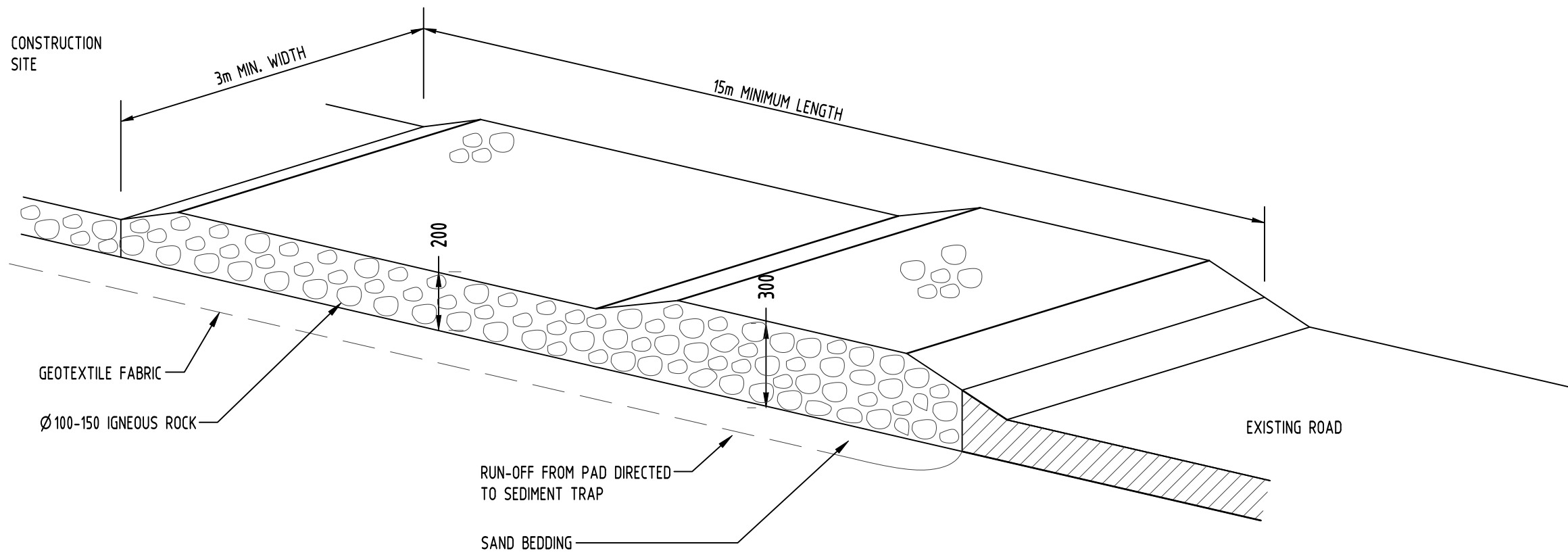


TYPICAL SECTION

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 CONSTRUCTION NOT ENTER THE PITS.



TEMPORARY CONSTRUCTION EXIT
RUBBLE ALTERNATIVE
NOT TO SCALE

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

Issue internal sequence and revision history			
Issue	Last revision title	by	Date Status
1-preliminary	2-development application	3-construction certificate	4-tender
5-construction	6-other		

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