

NOTES

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2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE & LEVEL ALL EXISTING SERVICES PRIOR TO THE COMMENCEMENT OF ANY EARTHWORKS. ALL DESIGN LEVELS SHOWN ON PLAN SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORK.
3. ALL PIPES TO HAVE MIN 200mm COVER IF LOCATED WITHIN PROPERTY.
4. ALL PITS IN DRIVEWAYS BE HEAVY DUTY GRATES. DIRECT SURFACE FLOW TO ALL GRATED SURFACE INLET PITS.
5. ALL WORK DO BE DONE IN ACCORDANCE WITH AS/NZ 3500.3.2:1998 AND COUNCIL SPECIFICATIONS.
6. LOCATION OF DOWNPIPES & FLOOR WASTES ARE INDICATIVE ONLY. DOWNPIPE & FLOOR WASTE SIZE, LOCATION & QUANTITY TO BE DETERMINED BY BUILDER & IN ACCORDANCE WITH RELEVANT AUSTRALIAN STANDARDS.
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10. ALL GUTTERS WILL BE FITTED WITH LEAF GUARDS AND SHOULD BE INSPECTED AND CLEANED TO ENSURE LEAF LITTER CANNOT ENTER THE DOWNPIPES
11. EXISTING STORMWATER DRAINAGE TO BE UTILISED WHERE CONTRACTOR SEE FIT.



PUMP WELL DETAILS

AREA DRAINING TO SUMP = $98.2 \times (92.9 \times 0.2) = 116.78 \text{ m}^2$

SUMP SIZE BASED ON 100 YEAR 2 HR STORM, $I = 40.0$ mm/hr,
 $Q = CIA/3600 = 1 \times 40.0 \times 116.78/3600 = 1.2976$ l/sec
 VOLUME REQUIRED = $1.2976 \times (2 \times 60 \times 60) = 9342.4$ L = 9.34 m³
 STORAGE PROVIDED $3.06 \times 3.06 \times 1.0 = 9.37$ m³

PUMP OUT RATE BASED ON 100YR 5MIN STORM, $I = 214 \text{ mm/h}$
 $Q = CIA/3600 = 1 \times 214 \times 116.78/3600 = 6.94 \text{ l/sec}$
 $Q = 6.94 \text{ L/sec}$

DUAL KS-20 PUMP OR EQUIVALENT TO BE INSTALLED IN SUMP AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMPS TO OPERATE SIMULTANEOUSLY ON HIGH LEVEL ALARMS AT 5.0 l/sec (PER PUMP) AT 6.06m HEAD

LEGEND

RL PIT SURFACE LEVEL

IL INVERT LEVEL

TK TOP OF KERB

— SW — SW — STORMWATER DRAINAGE PIPE

DOWNPIPE TO RAINWATER TANK

— AG — AG — Ø100 SUBSOIL PIPE

— OF — OF — RAINWATER TANK OVER FLOW PIPE

PROPOSED RISING MAIN

—CIS—CIS— Ø80mm CAST IN-SITU

EXISTING STORMWATER PIPE

○ DP PROPOSED Ø100 DOWN PIPE

○ DP1 PROPOSED Ø150 DOWN PIPE

● EX-DP EXISTING DOWN PIPE

● CO CLEAN OUT

● DPS DOWN PIPE SPREADERS

● VD VERTICAL DROP

● VR VERTICAL RISER

● FW FLOOR WASTE 650

 GRATED INLET PIT 200mm WIDE GRATED DRAIN

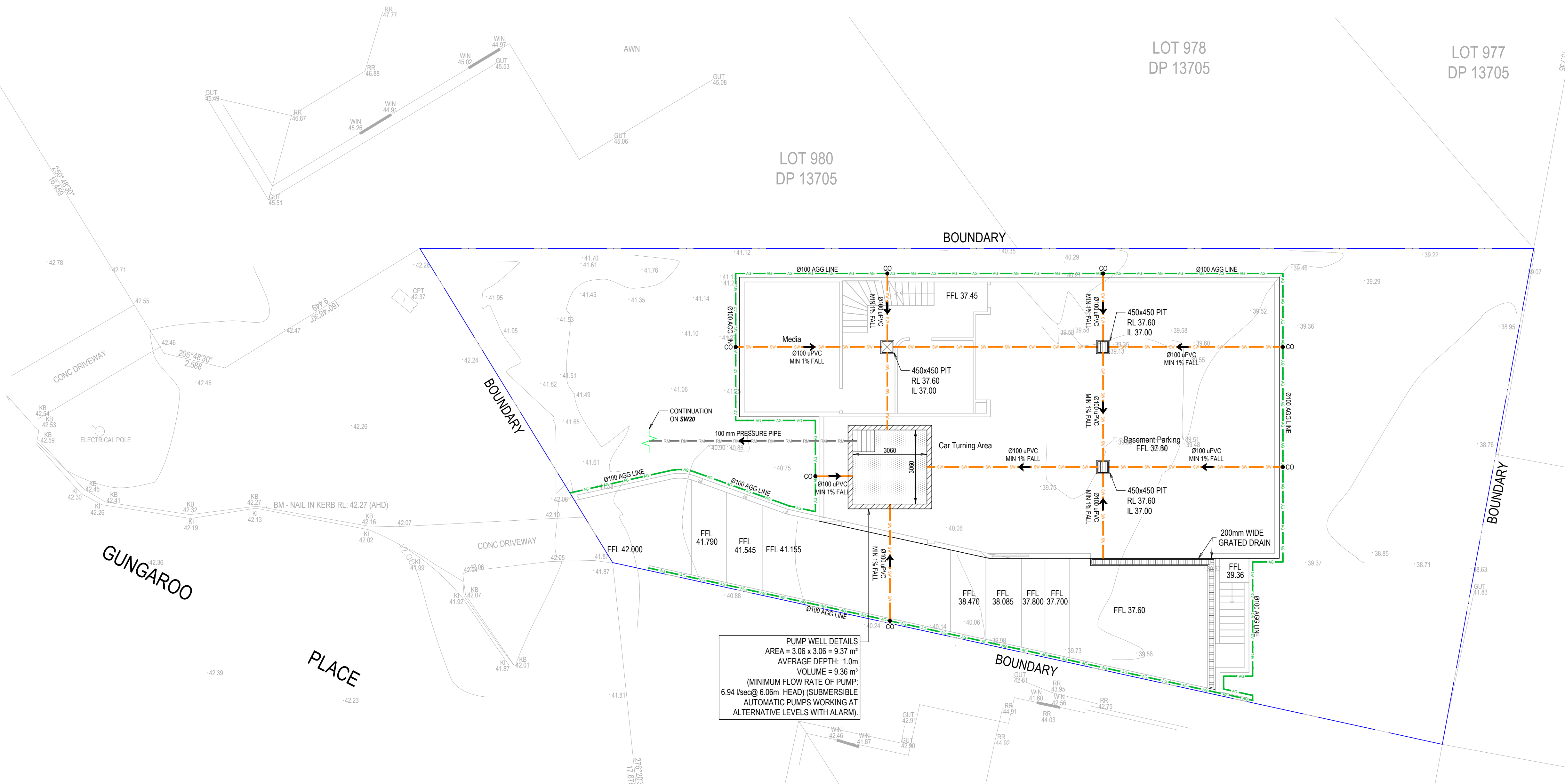
BD BALCONY DRAIN

PD PLANTER DRAIN

 RWO ROOF RAINWATER OUTLET

 RWTH AACHEN UNIVERSITY

● SP PROPOSED DOWN PIPE SPREADER

 SWIVEL JOINT FLEXIBLE CONNECTOR[illegible]

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DESIGN NOTES

- LGA = CANTERBURY-BANKSTOWN COUNCIL

LOT SITE AREA = 664.6m²

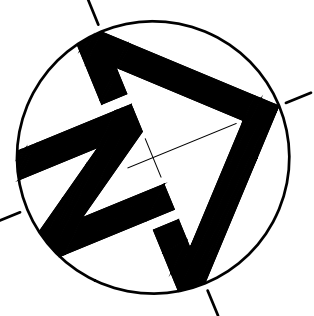
IN ACCORDANCE WITH COUNCIL GUIDELINE OSD IS NOT REQUIRED FOR SUBJECT DEVELOPMENT.

SITE STORMWATER TO DISCHARGE TO ABSORPTION SYSTEM INCORPORATING OVERFLOW PUMP-OUT TO THE KERB. SYSTEM SIZED IN ACCORDANCE WITH CLAUSE 3.10 OF CANTERBURY-BANKSTOWN DCP 2023 - CHAPTER 3.1:

IMPERVIOUS AREA DRAINING TO SYSTEM = 261.3 m²
VOL. REQUIRED = 0.015m³/m² = 0.015 x 261.3 = 3.9195 m³
VOL. PROVIDED = 0.175m³/m = 0.175 x 22.5 = 3.9375 m³
(VOLUME OF EVERTRENCH JUMBO = 0.175 m³/m)

PUMP OUT RATE CAPACITY = 0.035 L/s/m2 = 0.035 x 261.3 = 9.1455 L/s
KS-20 PUMP OR EQUIVALENT TO BE INSTALLED AND CONNECTED TO CONTROL PANEL WHICH WILL ALLOW FOR THE PUMP TO OPERATE AT 9.15 l/sec AT 4.02m HEAD

PROPOSED 2x2000L RAINWATER TANK INSTALLED TO BASIX SPECIFICATIONS. TANK USED FOR DESIGN: 2000 LITRE THINTANKS SUPER SLIMLINE WATER TANK. DIMENSIONS: 2400L x 470W x 1970H



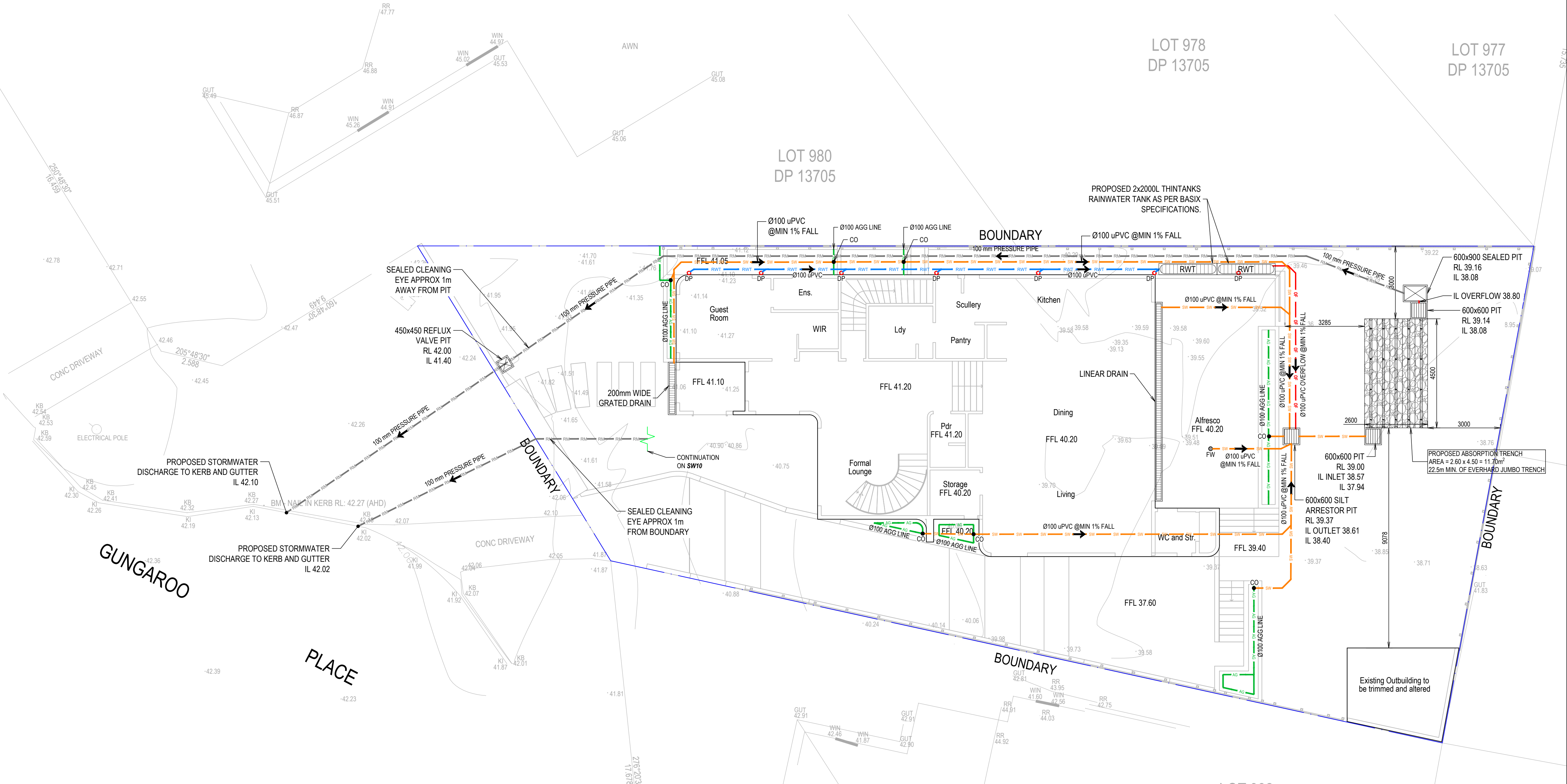
LEGEND



- RL

PIT SURFACE LEVEL
- IL

INVERT LEVEL
- TK

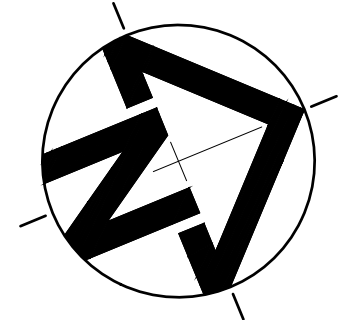
TOP OF KERB
- STORMWATER DRAINAGE PIPE
- DOWNPIPE TO RAINWATER TANK
- Ø100 SUBSOIL PIPE
- RAINWATER TANK OVER FLOW PIPE
- PROPOSED RISING MAIN
- Ø80mm CAST IN-SITU
- EXISTING STORMWATER PIPE
- PROPOSED Ø100 DOWN PIPE
- PROPOSED Ø150 DOWN PIPE
- EXISTING DOWN PIPE
- CLEAN OUT
- DOWN PIPE SPREADERS
- VERTICAL DROP
- VERTICAL RISER
- FLOOR WASTE 65Ø
- GRATED INLET PIT
- 200mm WIDE GRATED DRAIN
- BALCONY DRAIN
- PLANTER DRAIN
- ROOF RAINWATER OUTLET
- RAINWATER HEAD
- PROPOSED DOWN PIPE SPREADER
- SWIVEL JOINT
- FLEXIBLE CONNECTOR



					 <div>P: 9037 0731 E: info@aeconsulting.com.au W: www.aeconsulting.com.au</div>	<div>ARCHITECT</div>  <div>COMPLETE HOME PROJECT</div>	<div>CLIENT</div> <div>JOHN AND KATHY</div>	<div>SHEET SUBJECT</div> <div>STORMWATER DRAINAGE PLAN GROUND FLOOR LEVEL</div>	<div>PROJECT: 3 GUNGAROO PLACE, BEVERLY HILLS, NSW 2209</div> <table><tr><td>DATE</td><td>DRAWN</td><td>DESIGNED</td><td>CHECKED</td></tr><tr><td>10.07.2025</td><td>A.E.</td><td>A.E.</td><td>A.E.</td></tr><tr><td colspan="2">SCALE @ A1</td><td colspan="2">JOB No</td></tr><tr><td colspan="2">1:100</td><td colspan="2">D25066</td></tr><tr><td colspan="2">AUTHORISED</td><td>DWG No</td><td>REV</td></tr><tr><td colspan="2">A.E.</td><td>SW20</td><td>B</td></tr></table>				DATE	DRAWN	DESIGNED	CHECKED	10.07.2025	A.E.	A.E.	A.E.	SCALE @ A1		JOB No		1:100		D25066		AUTHORISED		DWG No	REV	A.E.		SW20	B	<div>ISSUED FOR DA</div> <div>DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY</div> <div>This drawing remains the property of A.E CONSULTING ENGINEERS and must not be reproduced or used without written consent.</div>
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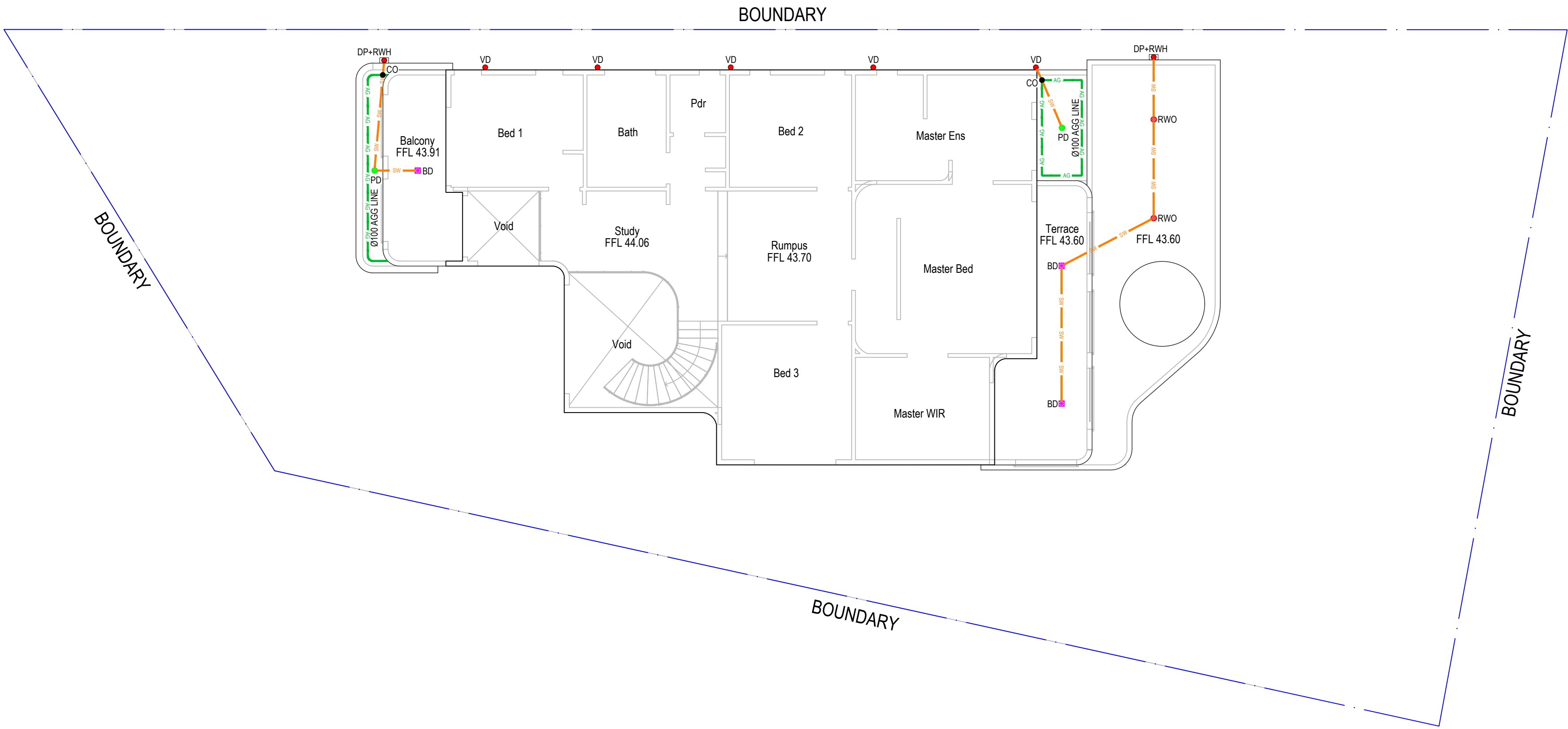
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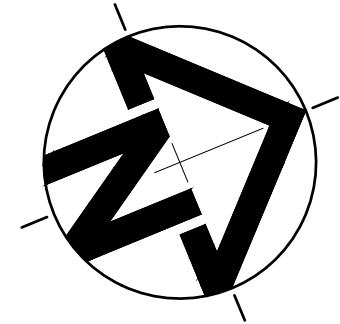
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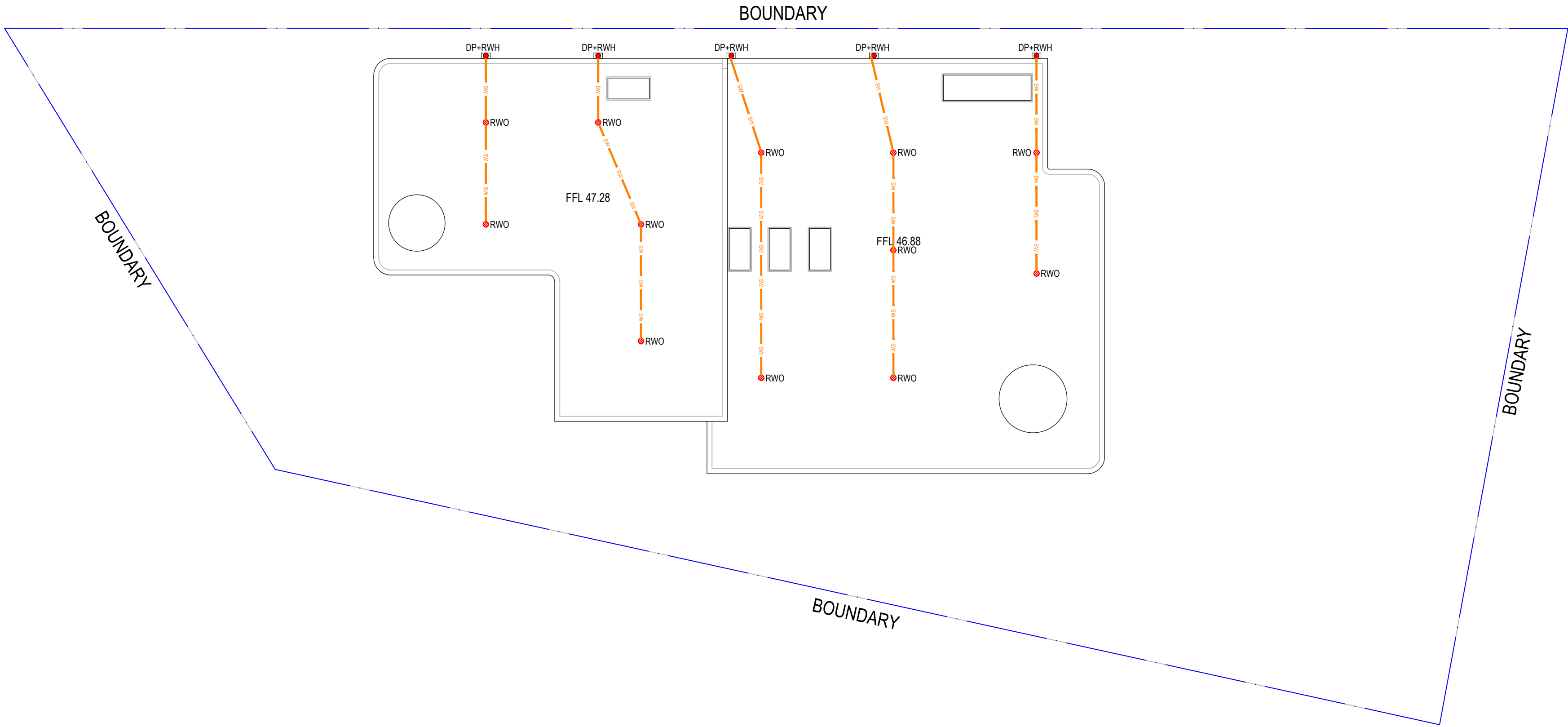
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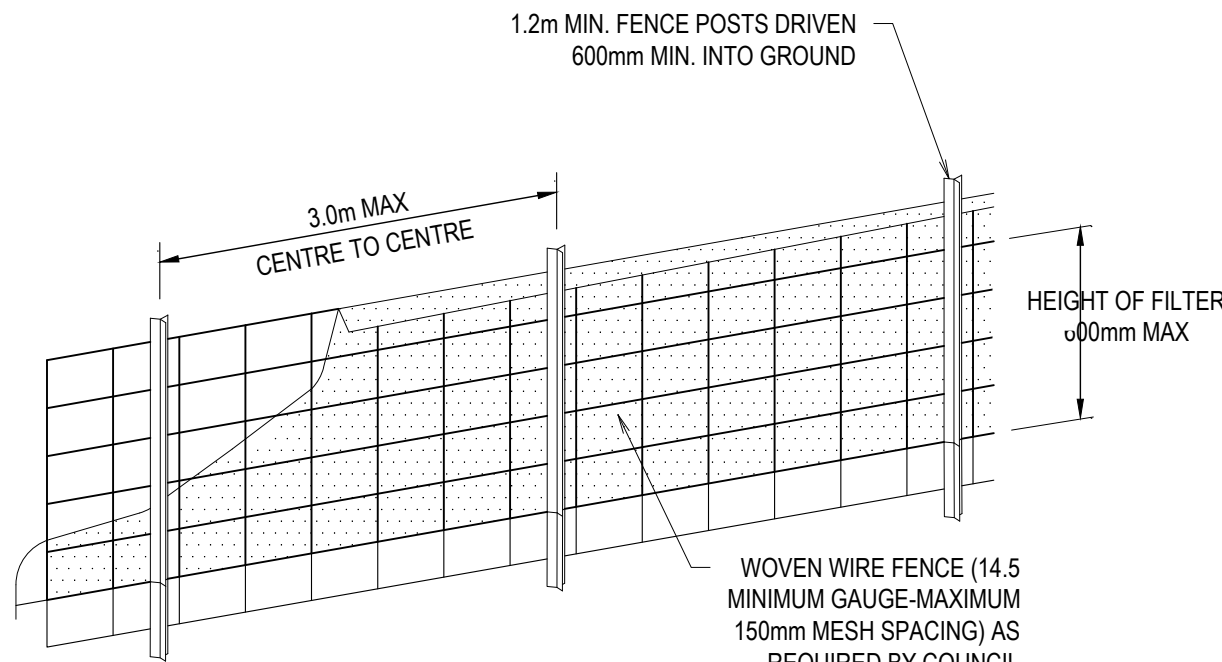
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EROSION & SEDIMENT CONTROL PLAN

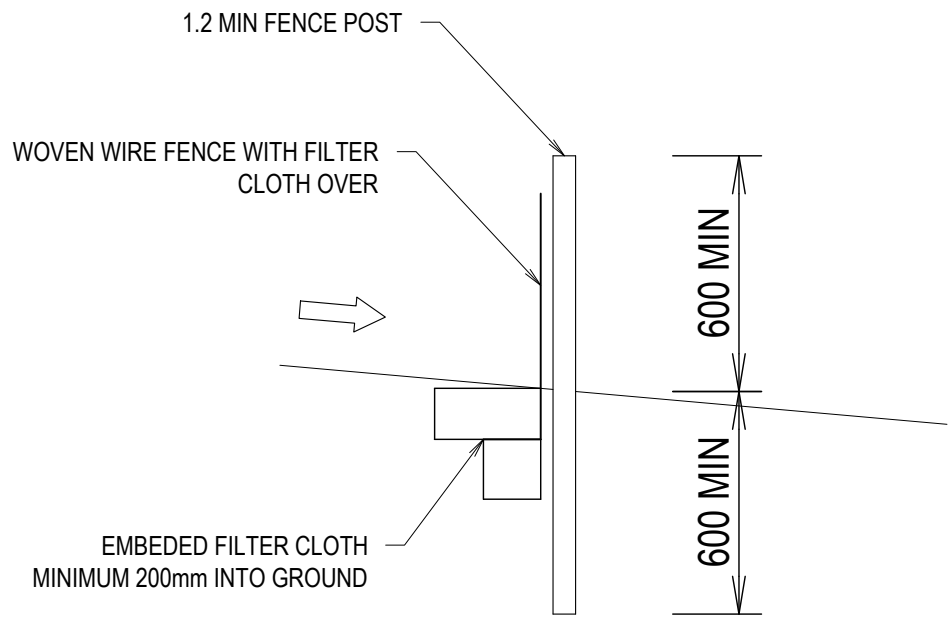
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2. THE CONTRACTOR MUST ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION
3. ALL BUILDERS AND SUB-CONTRACTORS SHALL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMIZING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWN SLOPE LANDS AND WATERWAYS
4. DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS SHALL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL
5. FINAL SITE LANDSCAPING SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES
6. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE BY FILTERING THROUGH AN APPROVED STRUCTURE
7. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING HAVE BEEN REHABILITATED
8. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THEY HAVE OPERATED EFFECTIVELY AND REMAIN IN WORKING CONDITION
9. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH PREVENTS TACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS OF WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITHIN ADDITIONAL GRAVEL AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS OF WAY MUST BE REMOVED IMMEDIATELY
10. PROVIDE SILT FENCE/HAY BALE BARRIERS TO THE LOW SIDE OF ALL EXPOSED EARTH EXCAVATIONS (TYPICAL)
11. ISOLATE EXISTING STORMWATER PITS WITH HAY BALES TO FILTER ALL INCOMING FLOWS
12. DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY

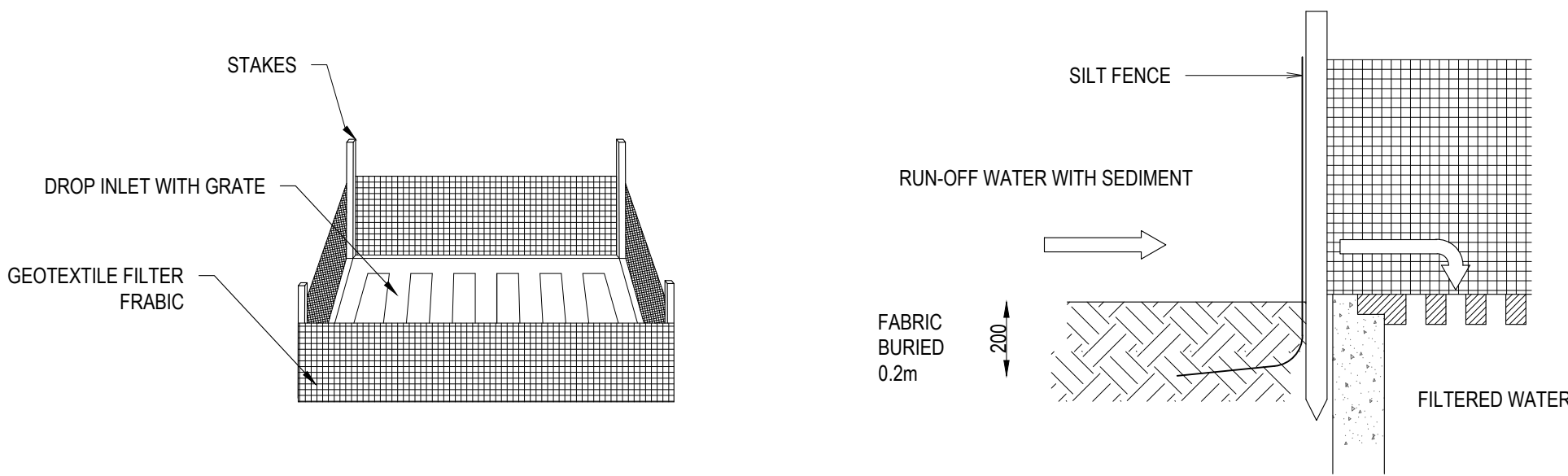


DIAGRAMMATIC VIEW

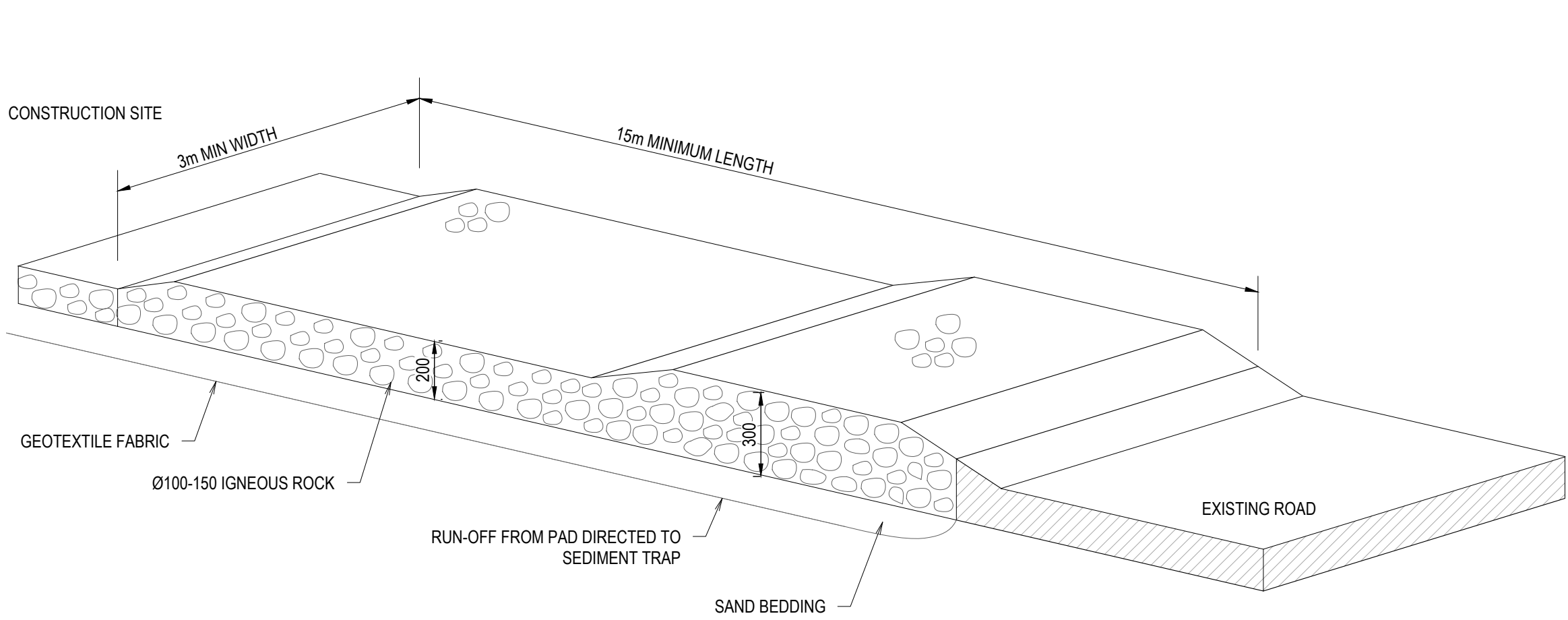


TYPICAL SECTION

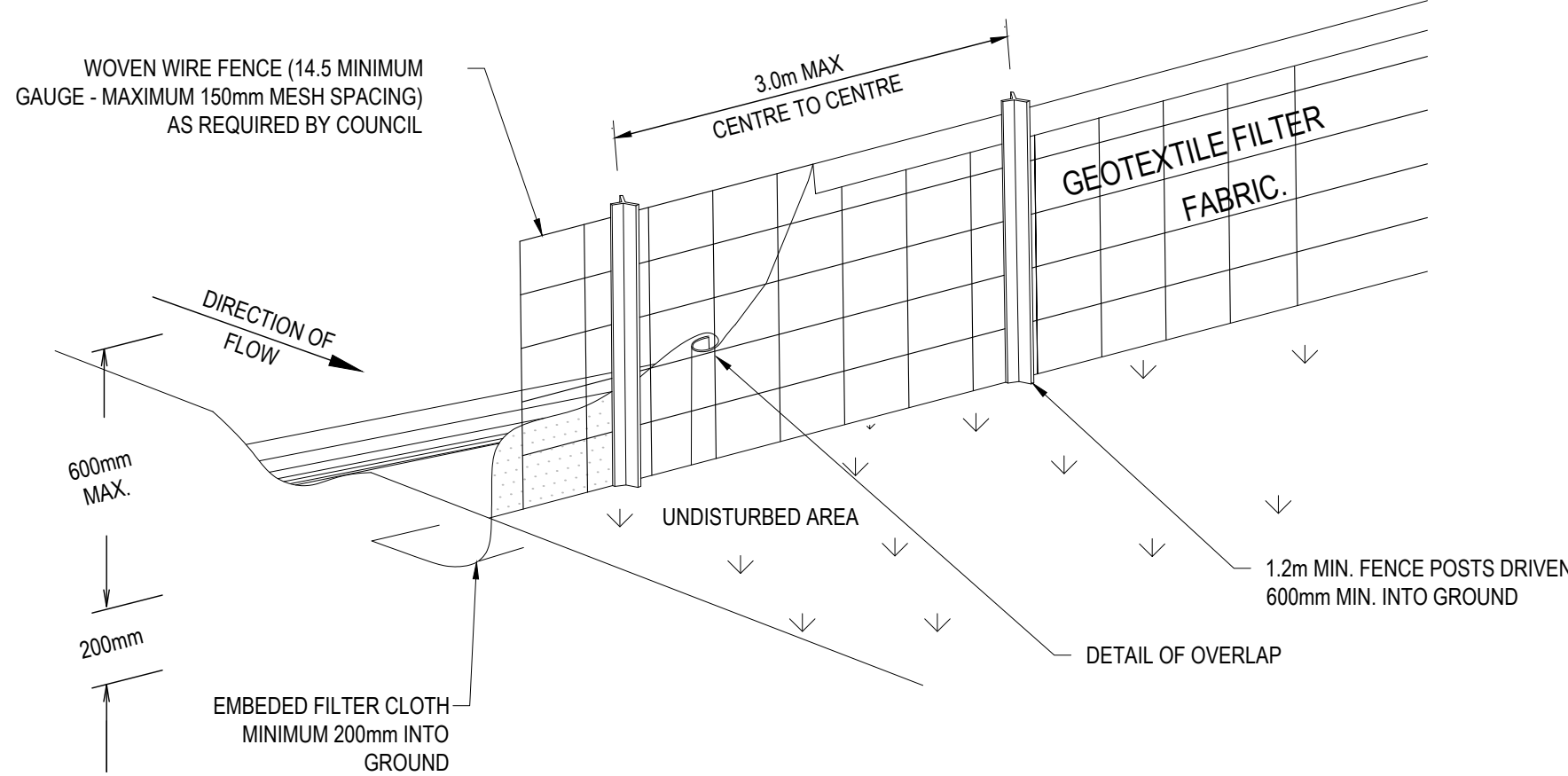
1 SEDIMENT FENCE DETAIL
NOT TO SCALE



2 SUMP SEDIMENT TRAP DETAIL
NOT TO SCALE

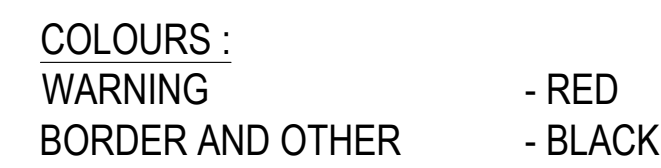


3 TEMPORARY CONSTRUCTION EXIT
NOT TO SCALE



4 SEDIMENT FENCE
NOT TO SCALE

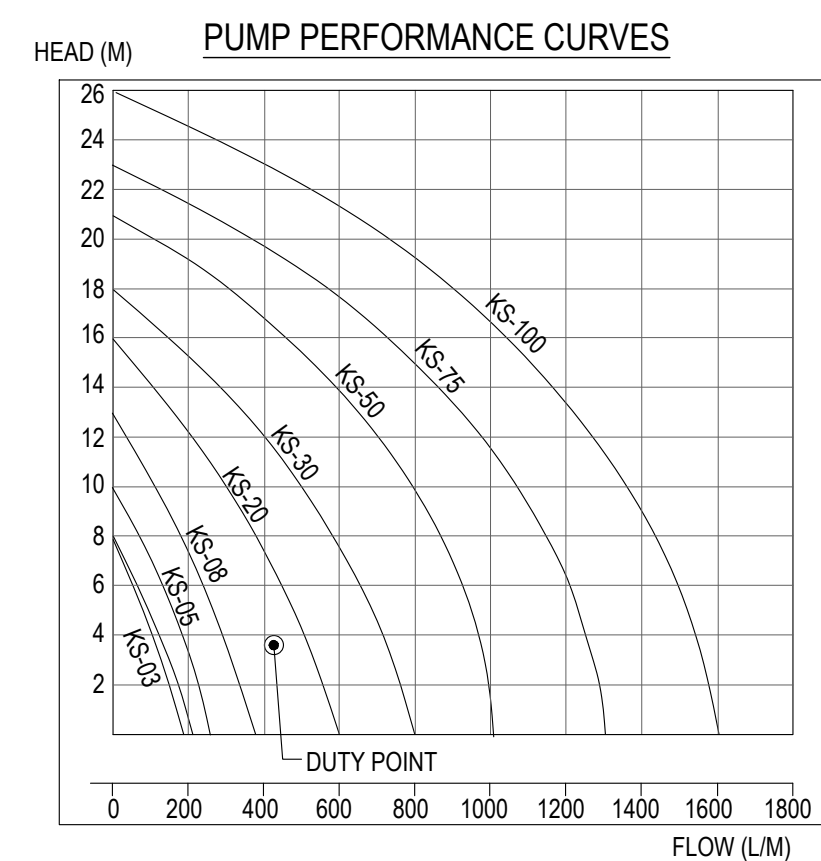
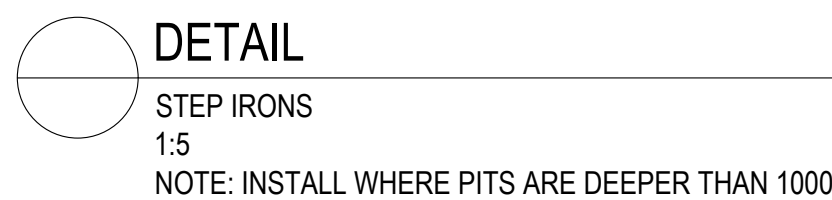
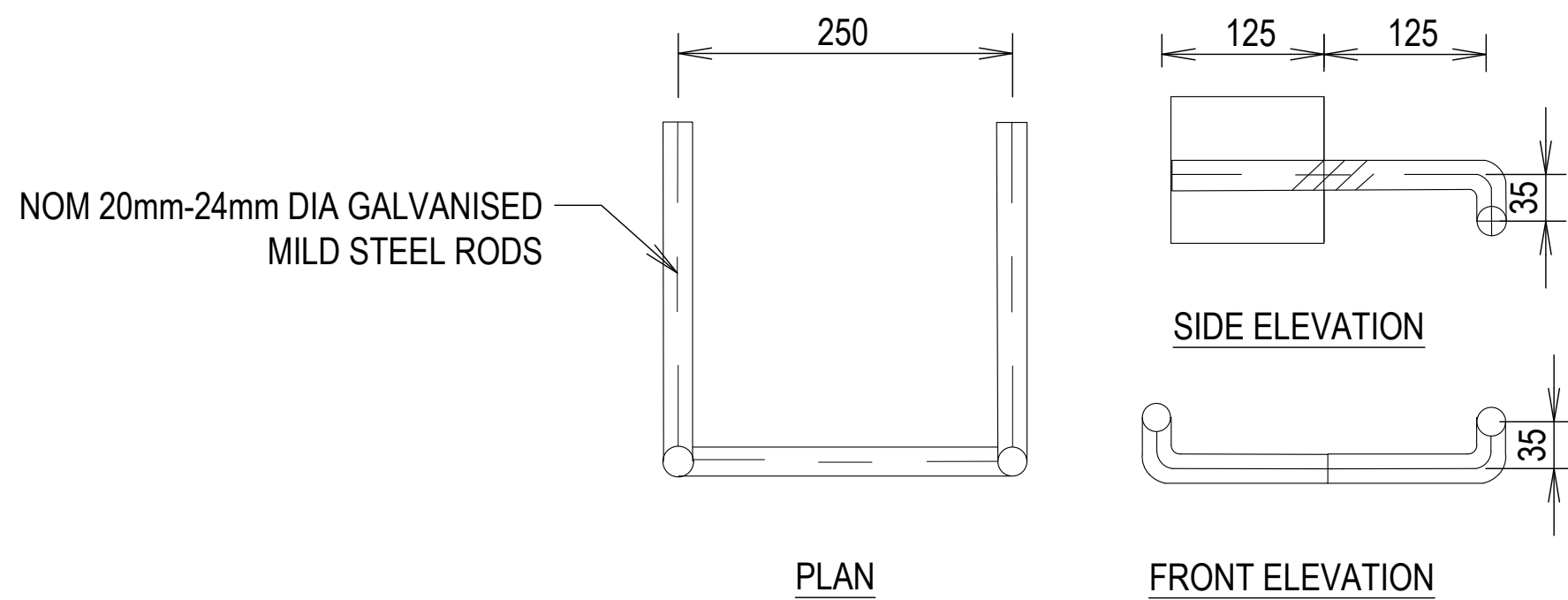
								P: 9037 0731 E: info@aeconsulting.com.au W: www.aeconsulting.com.au				ARCHITECT 				CLIENT JOHN AND KATHY				SHEET SUBJECT EROSION & SEDIMENT CONTROL DETAILS				PROJECT: 3 GUNGAROO PLACE, BEVERLY HILLS, NSW 2209				ISSUED FOR DA											
																												DATE 10.07.2025		DRAWN A.E.		DESIGNED A.E.		CHECKED A.E.					
B ISSUED FOR DA				A.E.		A.E.		31.07.25																		SCALE @ A1 AS SHOWN				JOB No D25066				DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY					
A ISSUED FOR DA				A.E.		A.E.		14.07.25																						AUTHORISED A.E.		DWG No SW50		REV B		This drawing remains the property of A/E CONSULTING ENGINEERS and must not be reproduced or used without written consent.			
No				AMENDMENT		ENG		DRAFT		DATE																													



SIGN SHALL BE PLACED IN A CLEAR AND VISIBLE LOCATION WHERE VEHICLES ENTER THE BASEMENT.

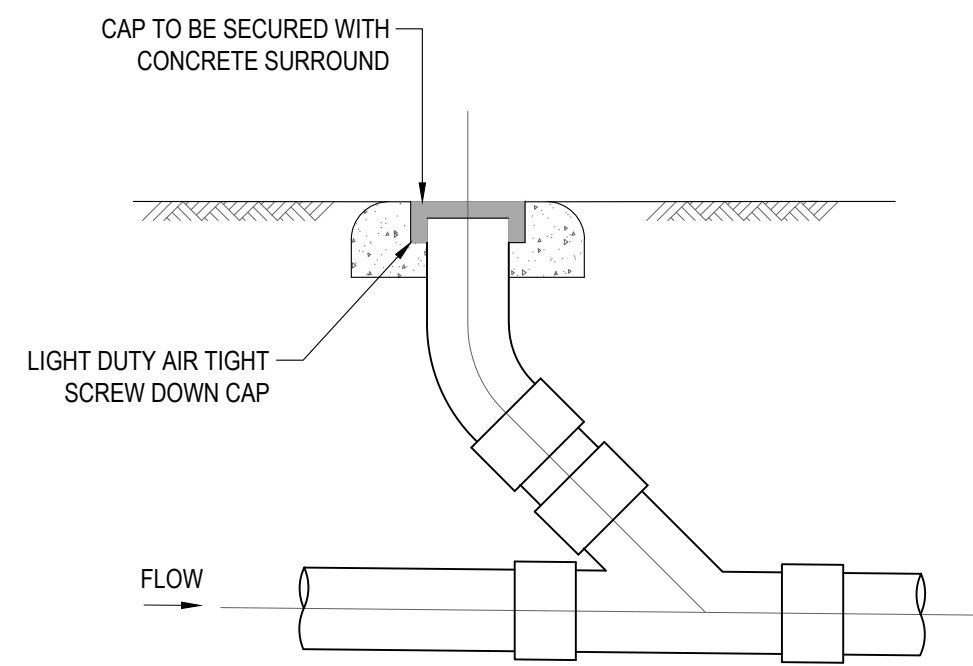
PUMP SPECIFICATIONS: STANDARD PUMP-OUT NOTES

- NOM 20mm-24mm DIA GALVANISED
MILD STEEL RODS

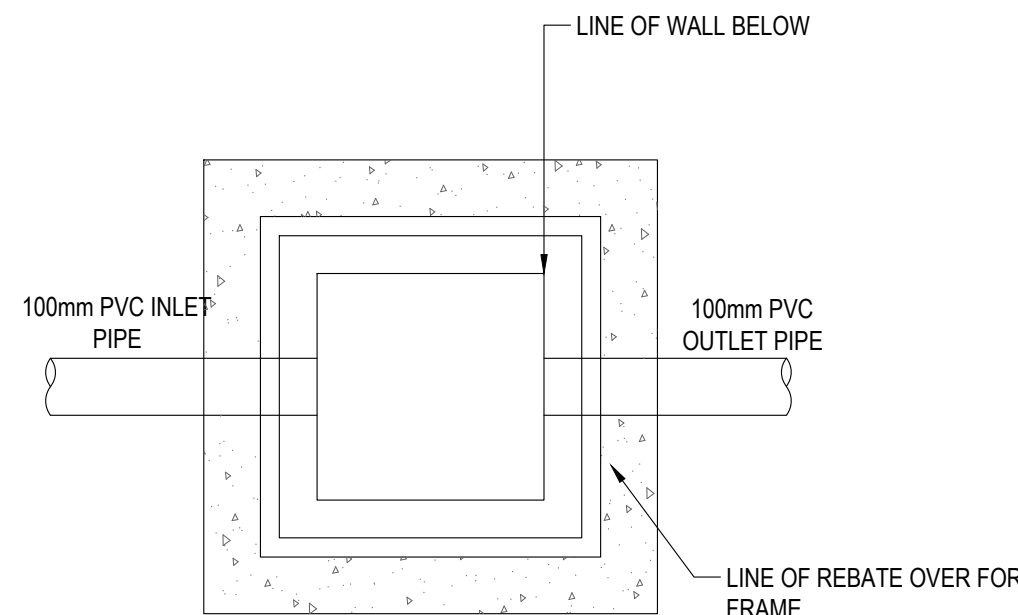


Type	Output		Outlet		Rated		Maximum		Weigh	Dimension		
					Head Capacity		Head Capacity					
	HP	kW	mm	Inch	M	LPM	M	LPM	Kg	L(mm)	W(mm)	H(mm)
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375
KS-08	1	0.75	50	2"	6	240	13	380	21	290	180	425
KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
KS-30	3	2.2	80	3"	10	500	18	800	42	390	250	450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610

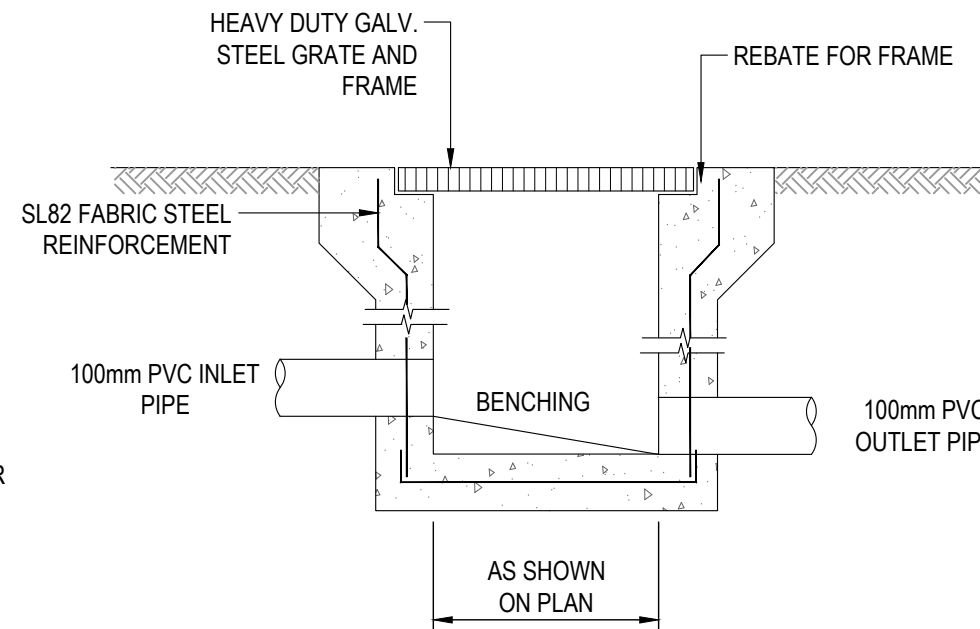
[illegible]



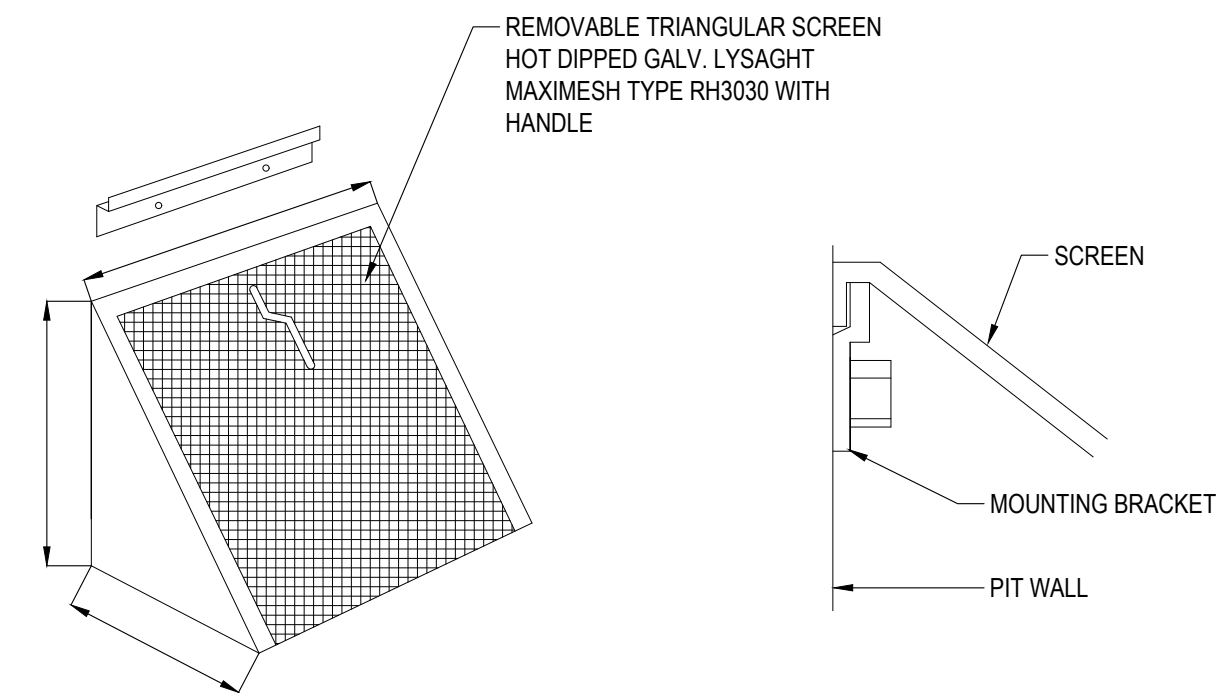
TYPICAL CLEANING EYE DETAIL
NOT TO SCALE



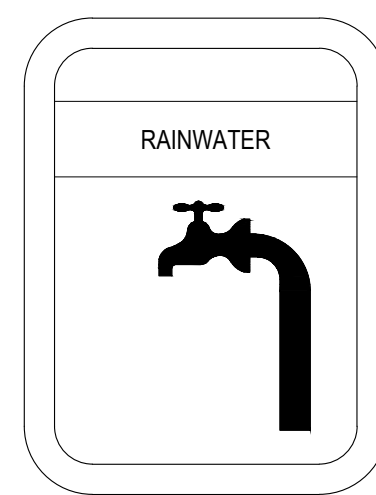
PLAN WITHOUT GRATE



SECTION

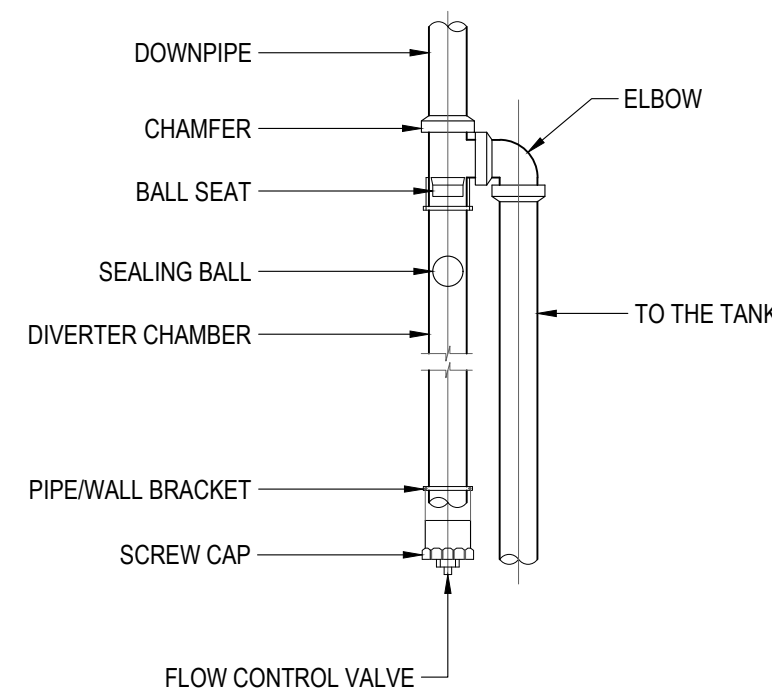


MULTI PURPOSE FILTER SCREEN DETAIL
NOT TO SCALE

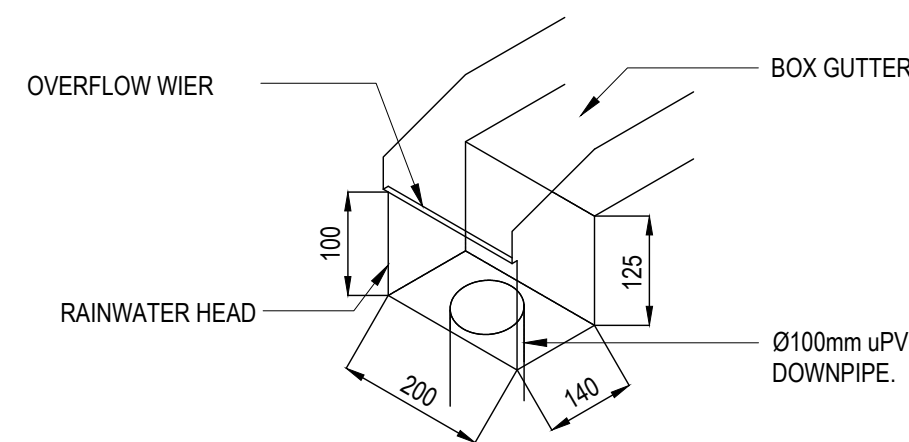


LEGEND:
BACKGROUND IS YELLOW
TEXT IS WHITE ON BLACK
BACKGROUND

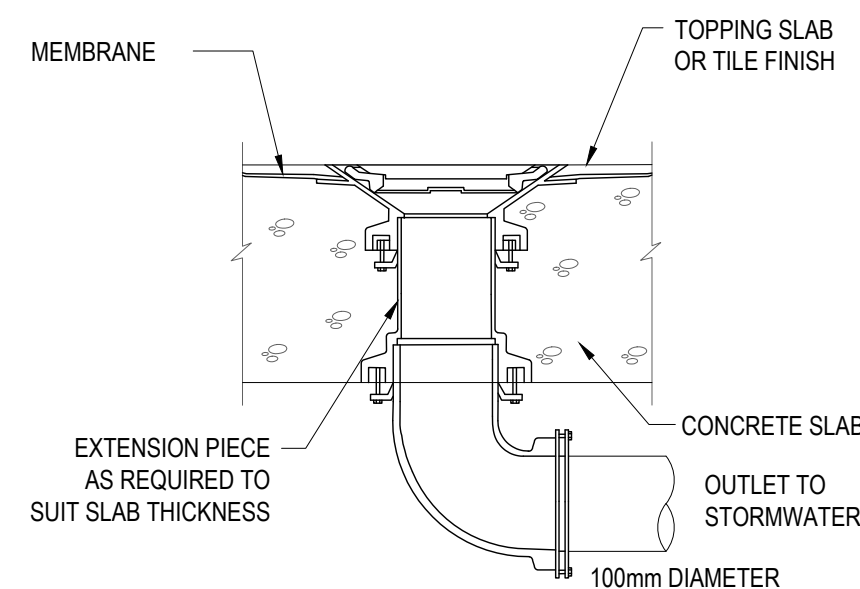
RAINWATER SIGN DETAIL
NOT TO SCALE



FIRST FLUSH DETAIL
NOT TO SCALE



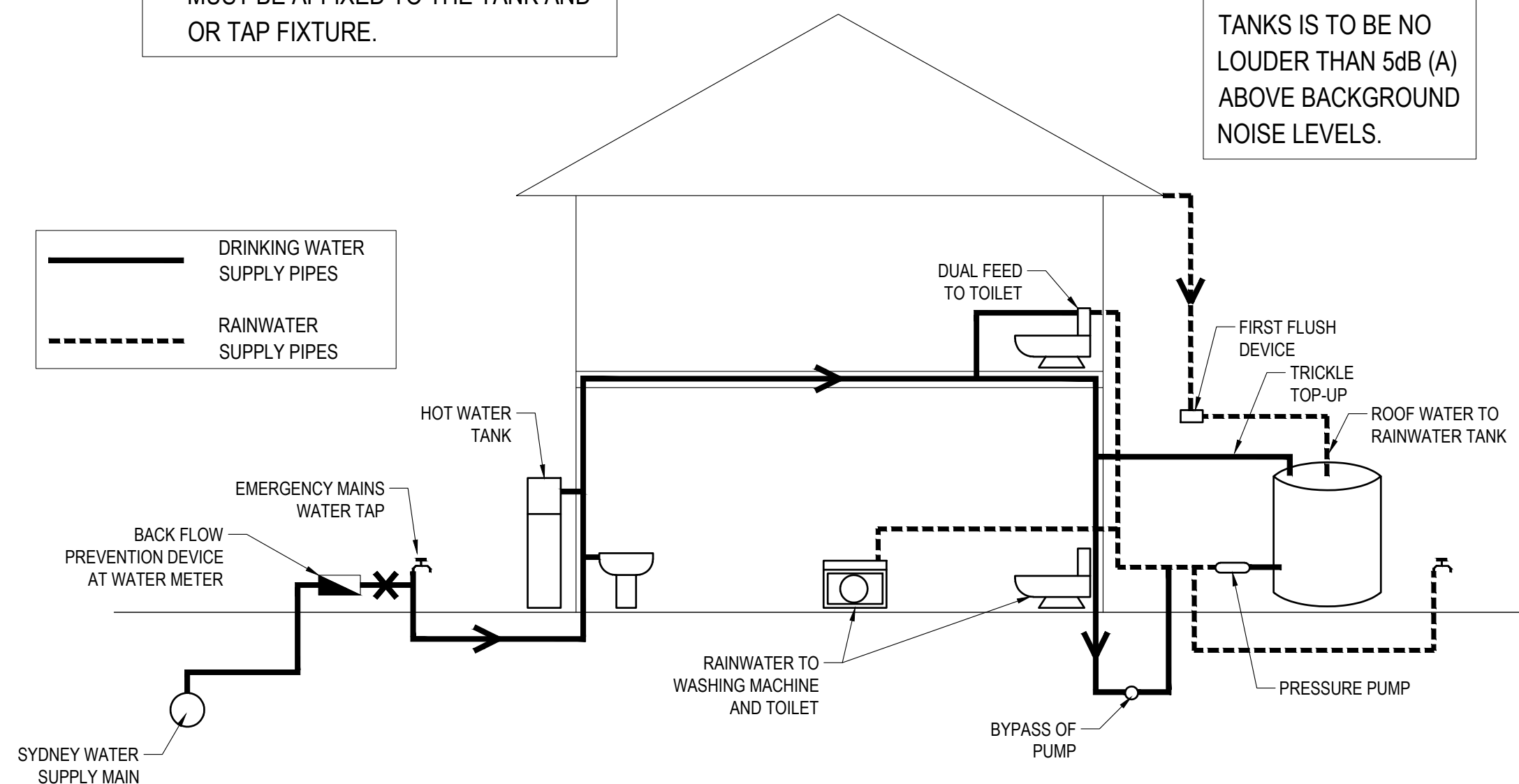
STANDARD RAINWATER HEAD SECTION
NOT TO SCALE



FLOOR WASTE OUTLET
NOT TO SCALE

- NOTE:
1. TANK WATER IS NOT RECOMMENDED FOR HUMAN CONSUMPTION.
 2. A SIGN STATING NOT FOR DRINKING MUST BE AFFIXED TO THE TANK AND OR TAP FIXTURE.

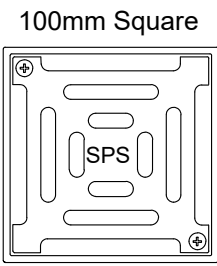
NOTE:
ANY PUMP INSTALLED FOR THE RAINWATER TANKS IS TO BE NO LOUDER THAN 5dB (A) ABOVE BACKGROUND NOISE LEVELS.



RAINWATER TANK EXPLANATORY DIAGRAM (NOT TO SCALE)
NOT TO SCALE

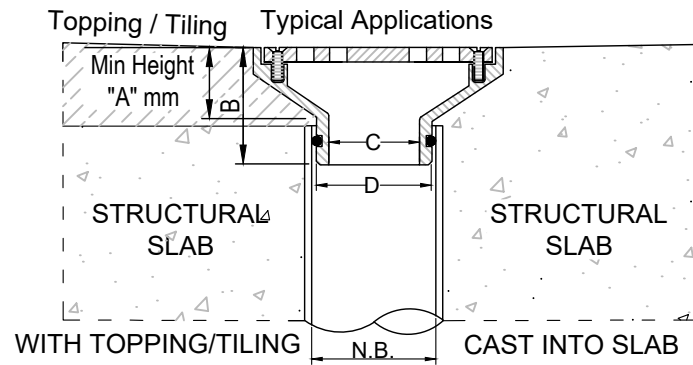
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SPS 100MM SQUARE PUSH-IN FLOOR DRAIN



- SQUARE GRATE AVAILABLE IN 316 STAINLESS STEEL. 304 GRADE AVAILABLE BY SPECIAL ORDER.
- O-RING SPIGOT PUSHES INTO 50MM OR 80MM PVC PIPE ONLY.

Specification codes:
Q100SR (50mm, satin 316SS)
Q100SR4 (50mm, polished 304SS)
Q100/80SR (80mm, satin 316SS)
Q100/80SR4 (80mm, polished 304SS)



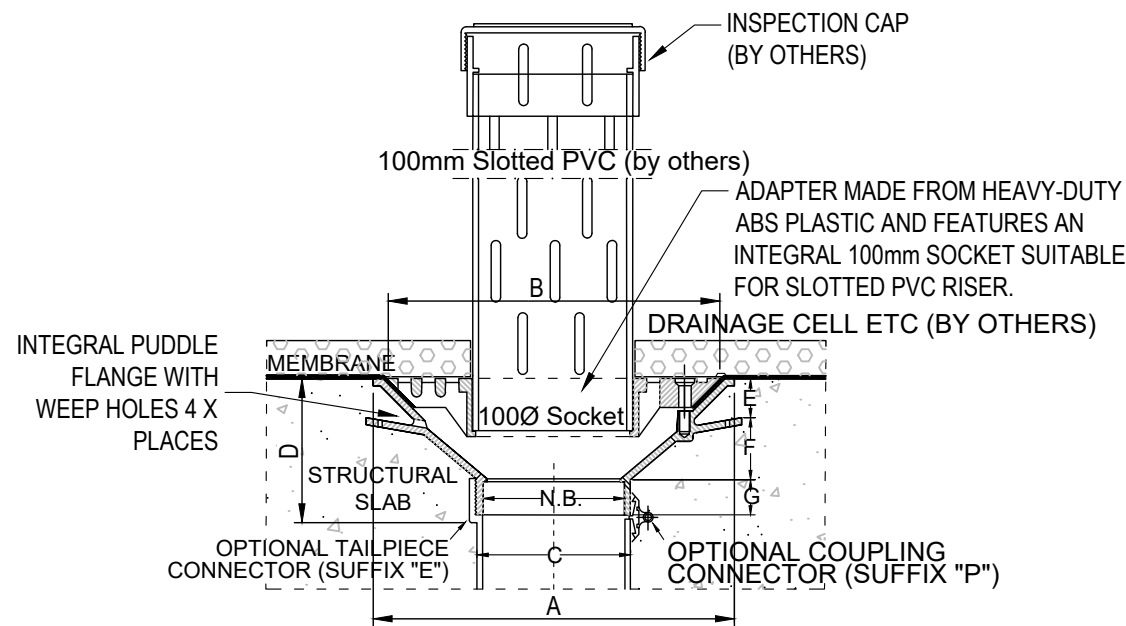
N.B	A	B	C	D
50mm	25	46	42	50
80mm	18	50	64	72

*For flow rate data please refer to appendix.

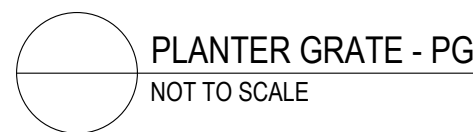


SPS TRUFLO 100MM & 150MM RWO WITH ALL-PURPOSE PLANTER BOX ADAPTER

SPECIFICATION CODE:
TIA100PB (100MM CI BODY WITH PLANTER BOX ADAPTER)
TIA150PB (150MM CI BODY WITH PLANTER BOX ADAPTER)

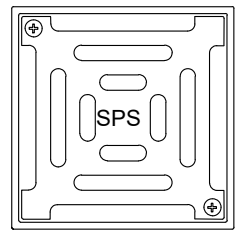


DIMENSIONS (MM)							
N.B	A	B	C	D	E	F	G
100	260	240	103	106	28	45	25
150	260	240	151	86	28	37	25

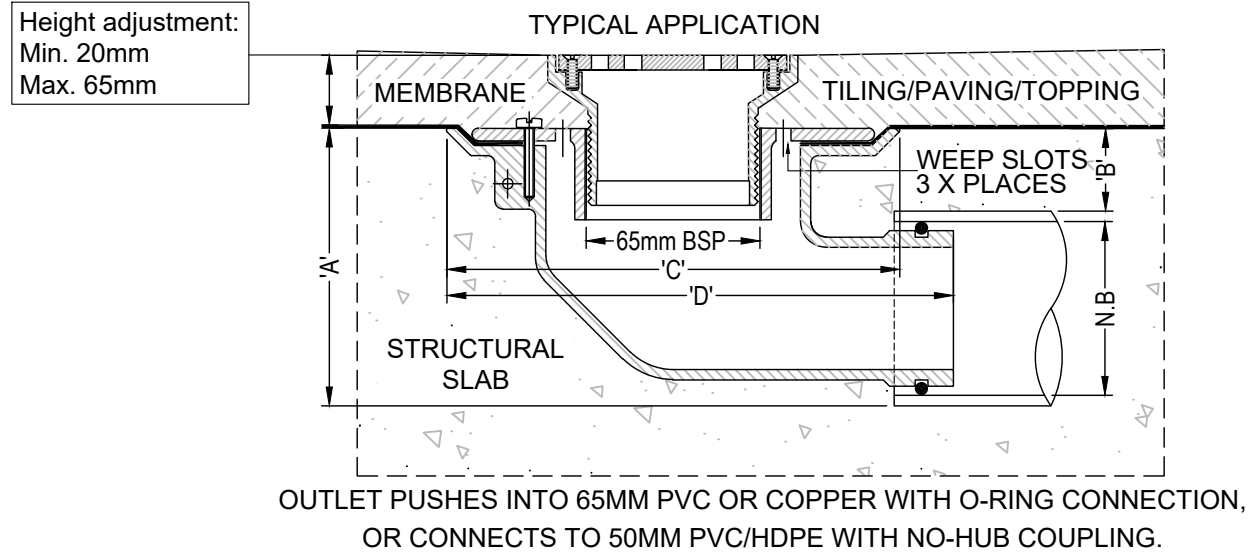


SPS 100MM SQUARE VARI-LEVEL SIDE OUTLET DRAIN 65/50MM OUTLET

SPECIFICATION CODE:
Q100G/C90 (BRONZE GRATE, ABS LOWER BODY) *SPECIAL ORDER*
Q100N/C90 (NICKEL BRONZE GRATE, ABS LOWER BODY) *SPECIAL ORDER*
Q100S4/C90 (POLISHED 304 STAINLESS STEEL, ABS LOWER BODY)
Q100S/C90 (SATIN 316 STAINLESS STEEL GRATE, ABS LOWER BODY)



- SQUIRE GRATE AVAILABLE IN POLISHED 304 & SATIN 316 STAINLESS STEEL. BRONZE AND NICKEL-BRONZE AVAILABLE BY SPECIAL ORDER ONLY.
- ABS 90° BODY AND REVERSIBLE MEMBRANE CLAMP COLLAR WITH FEMALE 65MM BSP THREAD.



N.B.	A	B	C	D
50	100	40	180	200
65	105	37	180	200

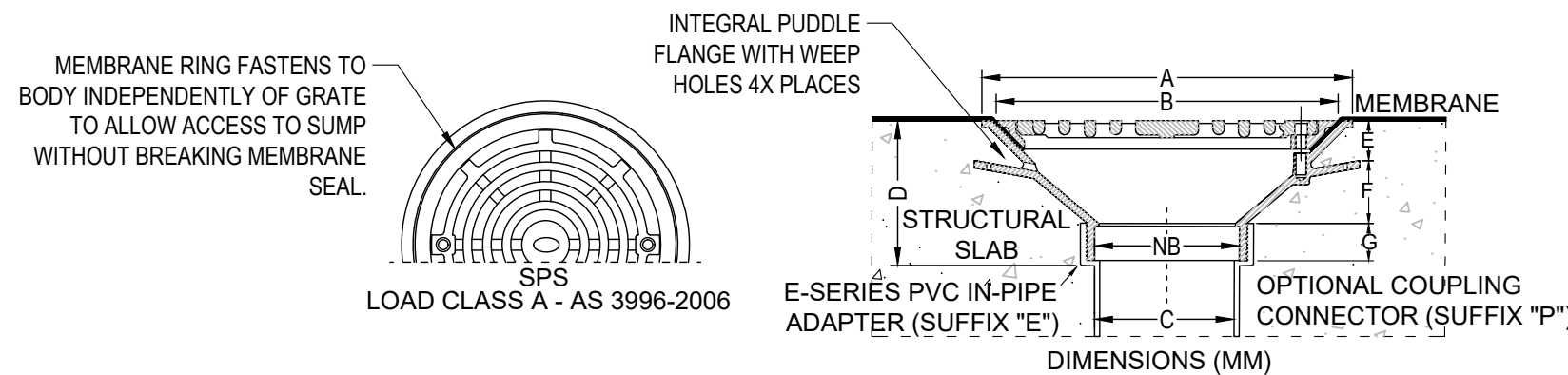
*FOR FLOW RATE DATA PLEASE REFER TO APPENDIX.



SPS TRUFLO 80, 100 & 150MM RWO WITH FLAT GRATE & MEMBRANE CLAMP

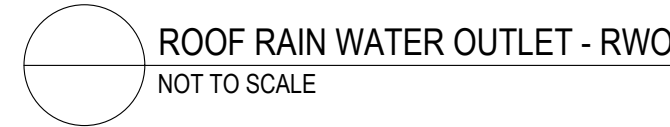
SPECIFICATION CODES:
TIA100F2 (CI BODY, ALUMINIUM FLAT GRATE & MEMBRANE RING)
TIB100F2 (CI BODY, BRONZE FLAT GRATE & MEMBRANE RING)
TBA100F2 (ALL-BRONZE ASSEMBLY)
- FOR 80MM OUTLET, USE "100/80" INSTEAD OF "100"
- FOR 150MM OUTLET, USE "150" INSTEAD OF "100"

SUGGESTED APPLICATION:
MEMBRANED FLOORS OR ROOFS WITH NO FURTHER TOPPING, EG PLANTER BOXES, PLANT ROOMS, ROOF DECKS.



N.B	A	B	C	D	E	F	G
80	260	240	82	106	28	45	25
100	260	240	103	106	28	45	25
150	260	240	151	86	28	37	25

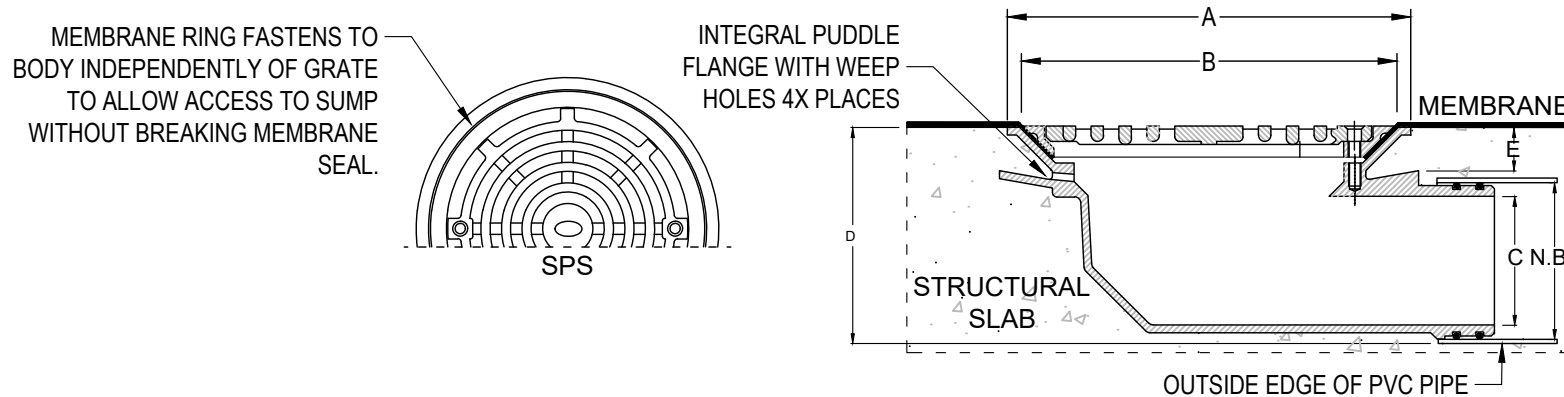
*FOR FLOW RATE DATA PLEASE REFER TO APPENDIX.



SPS TRUFLO 80MM & 100MM 90° RWO WITH FLAT GRATE & MEMBRANE CLAMP

SPECIFICATION CODES:
TIA80/90F2 (80MM CI BODY, ALUMINIUM CLAMP RING & GRATE)
TIB80/90F2 (80MM CI BODY, BRONZE RING & GRATE)
TIA100/90F2 (100MM CI BODY, ALUMINIUM CLAMP RING & GRATE)
TIB100/90F2 (100MM CI BODY, BRONZE RING & GRATE)

SUGGESTED APPLICATION:
MEMBRANED FLOORS OR ROOFS WITH NO FURTHER TOPPING, EG PLANTER BOXES, PLANT ROOMS, ROOF DECKS.



N.B.	A	B	C	D	E
80	260	240	62	115	28
100	260	240	83	140	28

*FOR FLOW RATE DATA PLEASE REFER TO APPENDIX.

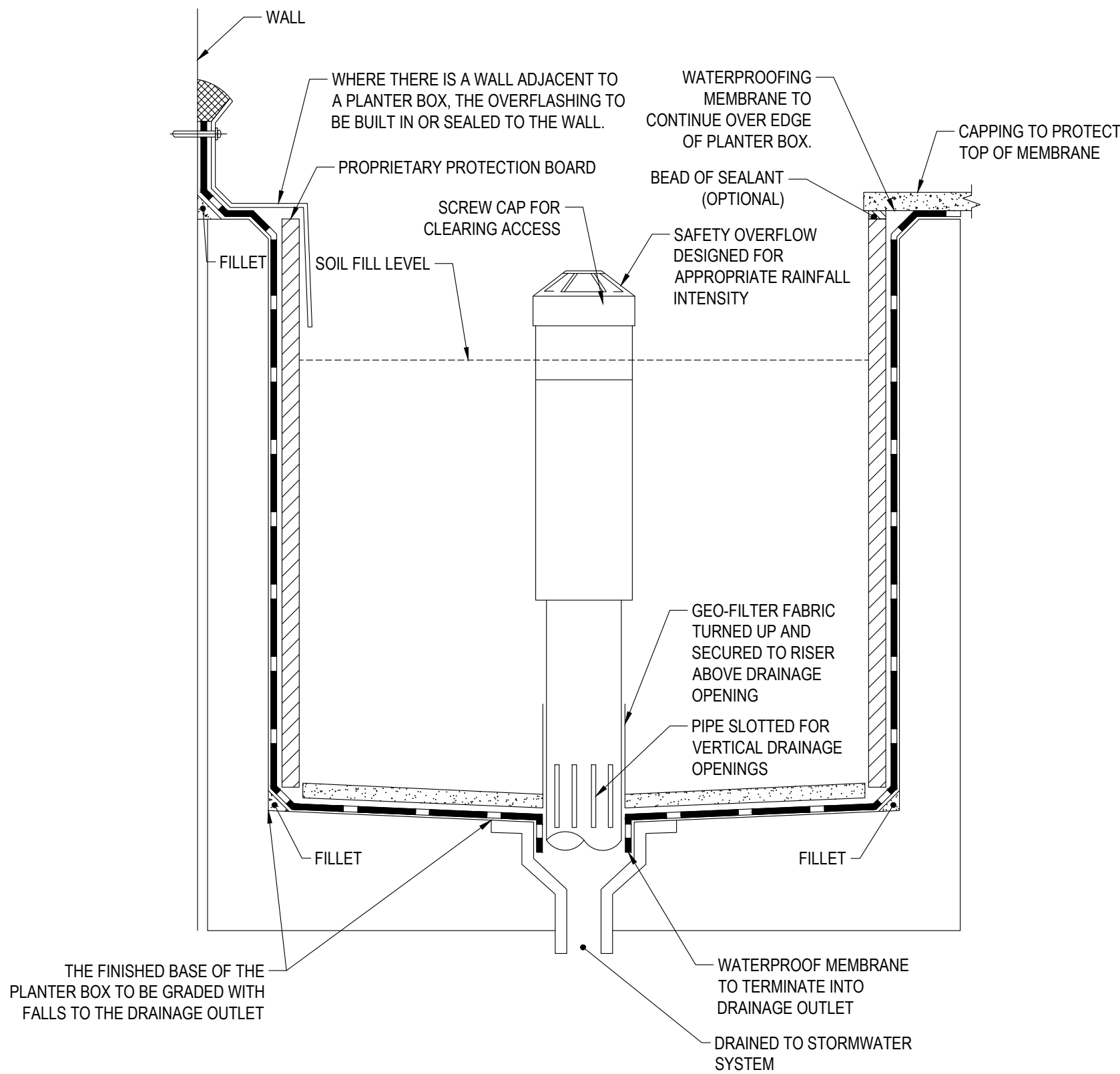
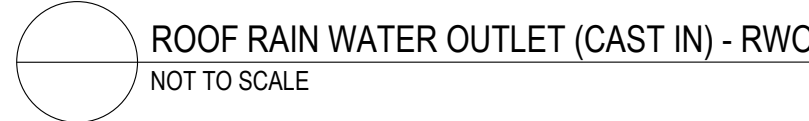
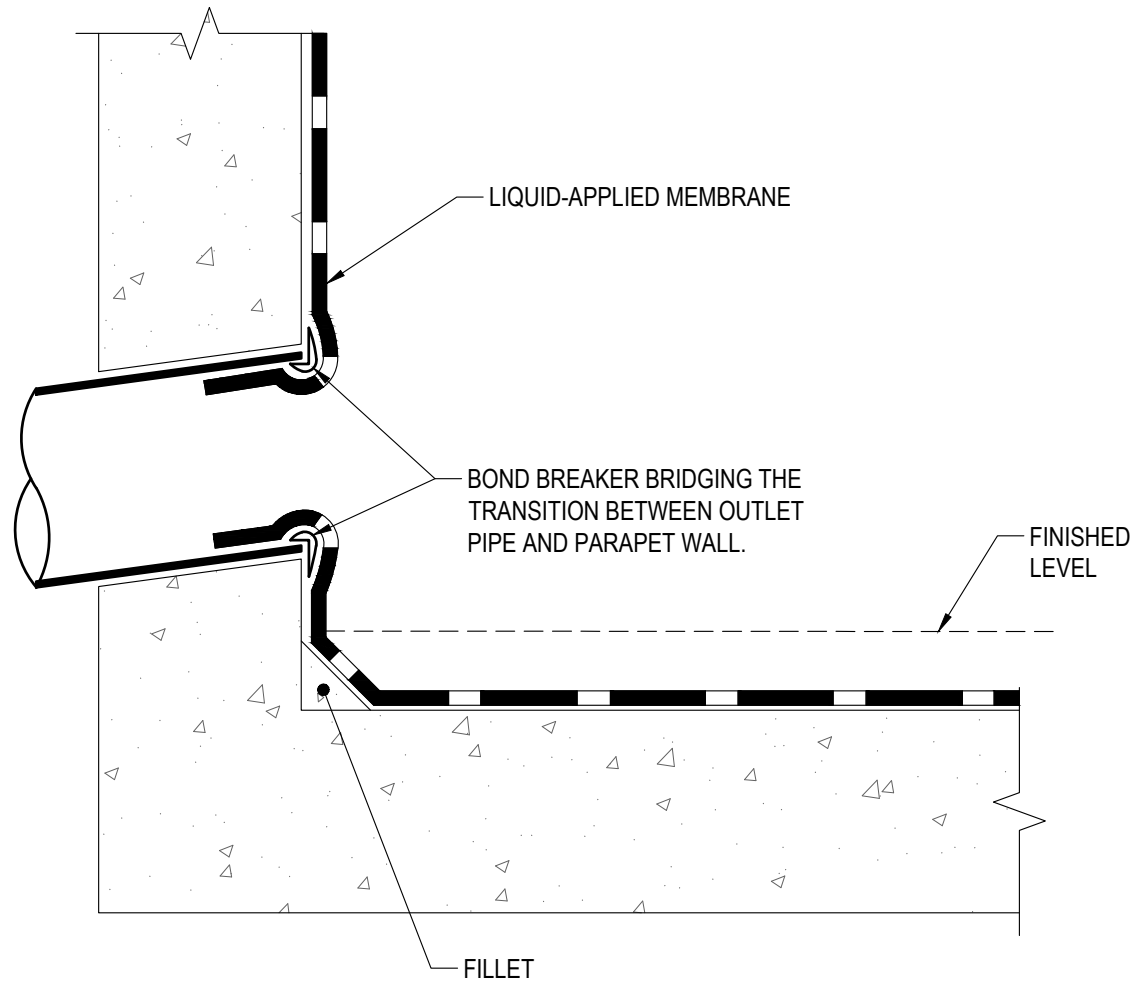
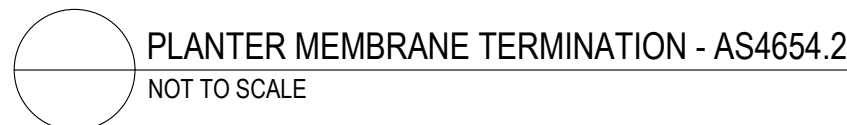
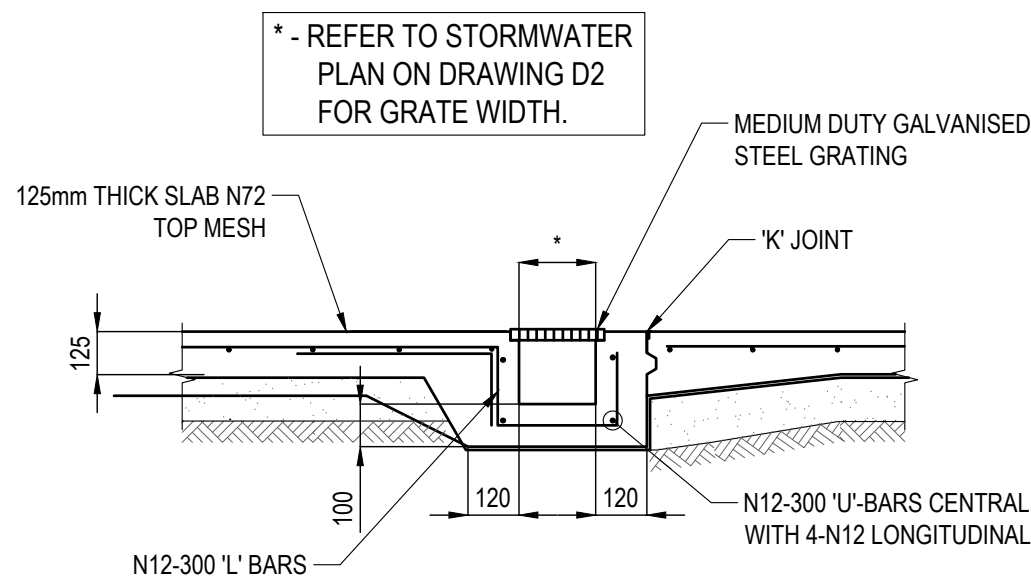
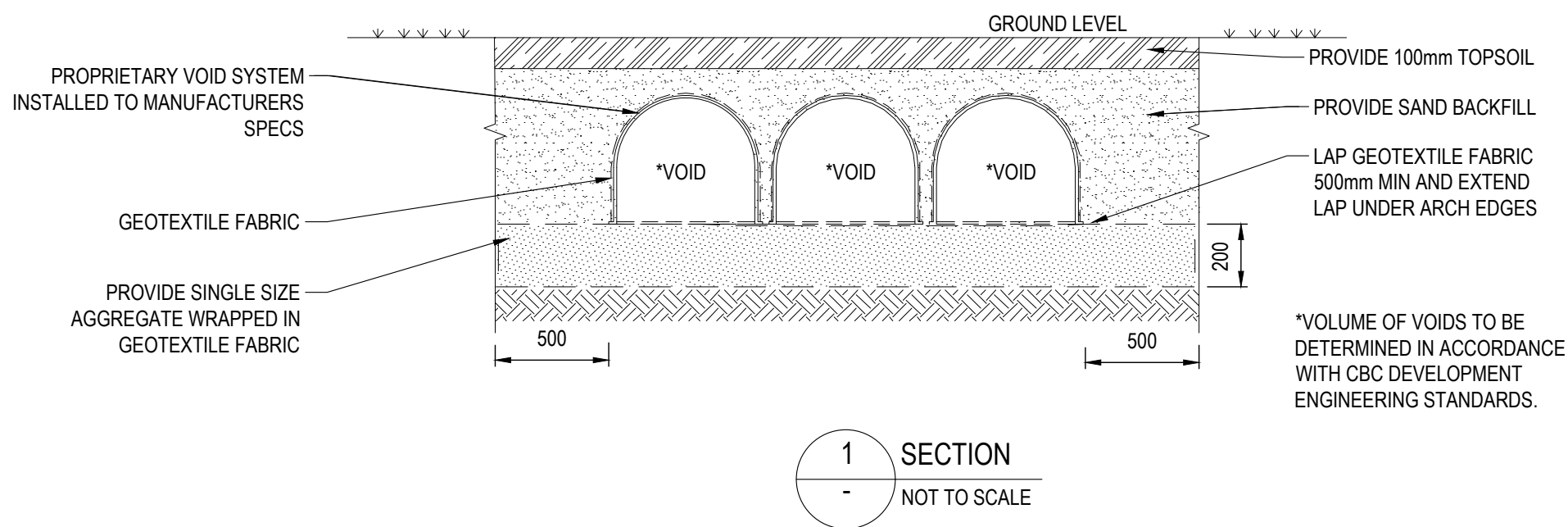
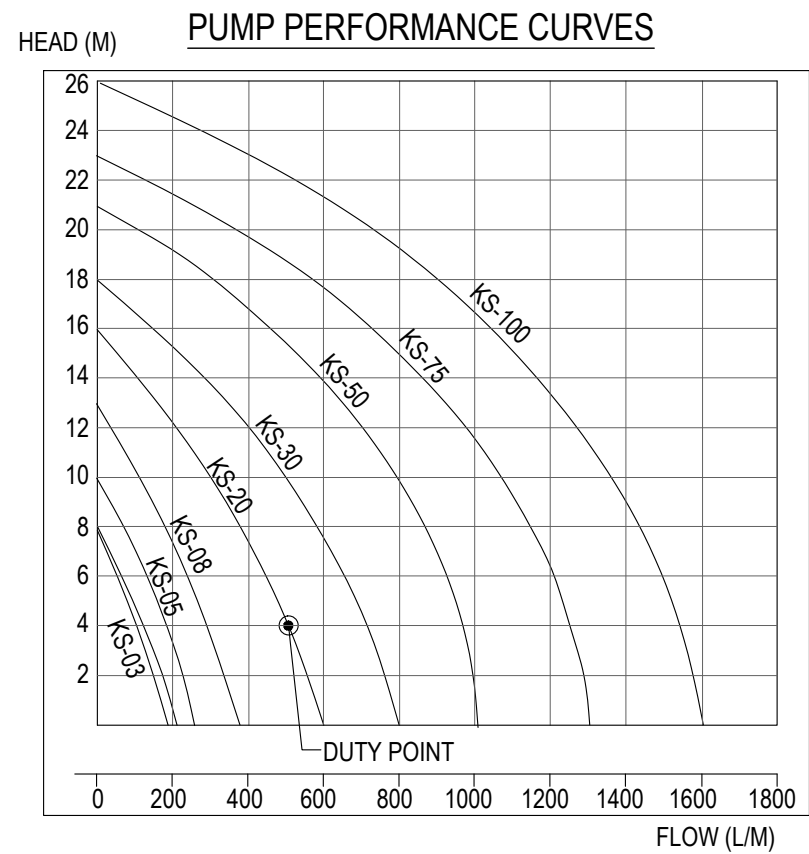
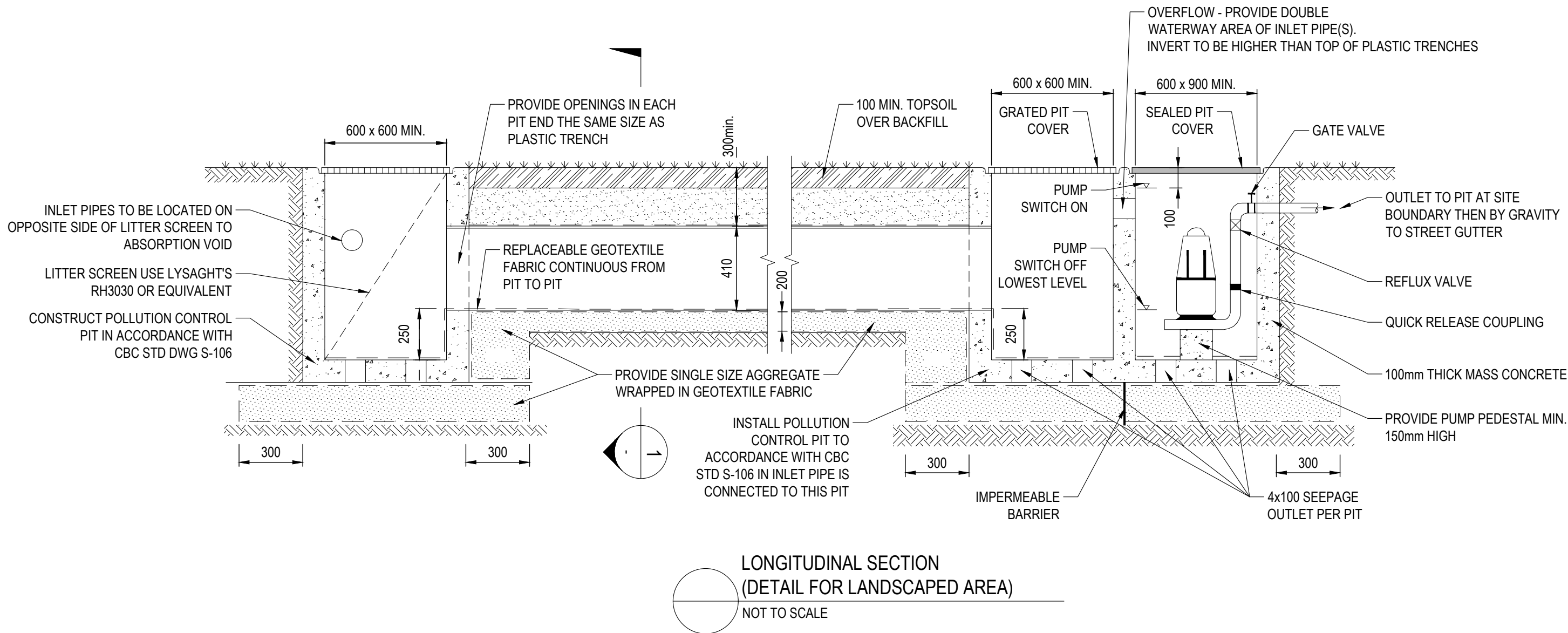


FIGURE 2.17 TYPICAL PLANTER BOX CONSTRUCTION



(a) OVERFLOW THROUGH PARAPET





- NOTES:
- WHERE PIT EXTENDS UNDER TRAFFICABLE AREAS. ADJUST BACKFILL TO MANUFACTURERS SPECS.
 - USE NEEDLE PUNCH GEOTEXTILE FABRIC WITH COEFFICIENT OF PERMEABILITY GREATER THAN 50E-4 mis. EITHER BIDIM A14 OR PROPEX 4550 IS SUITABLE.
 - AGGREGATE TO BE APPROVED SINGLE SIZE 5mm, 7mm, 10mm, 14mm OR 20mm.
 - EDGE OF SEEPAGE TRENCH IS TO BE LOCATED A MINIMUM OF 3.0m FROM ANY PROPERTY BOUNDARY AND 3.0m DOWNSTREAM FROM ANY DWELLING OR GARAGE ON SITE.
 - PUMP "SWITCH ON" IS TO BE 100mm BELOW GRATE LEVEL. PUMP "SWITCH OFF" LOWEST LEVEL IS TO BE LEVEL WITH THE VOID INVERT
 - SITE SURFACE FLOWPATHS TO BE DIRECTED TO DEPRESSION OVER ABSORPTION PIT.
 - ALL DIMENSIONS ARE IN MILLIMETRES.

Type	Output		Outlet		Rated		Maximum		Weigh	Dimension		
	HP	kW	mm	Inch	Head	Capacity	Head	Capacity		L(mm)	W(mm)	H(mm)
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359
KS-05	1/2	0.4	50	2"	5	160	10	260	14	230	156	375
KS-08	1	0.75	50	2"	6	240	13	380	21	290	180	425
KS-20	2	1.5	80	3"	10	300	16	600	31	278	182	475
KS-30	3	2.2	80	3"	10	500	18	800	42	390	250	450
KS-50	5	3.7	100	4"	10	800	21	1100	48	450	240	530
KS-75	7 1/2	5.6	100	4"	15	800	23	1300	60	550	310	590
KS-100	10	7.5	150	6"	18	900	25	1600	70	550	310	610

B	ISSUED FOR DA	A.E.	A.E.	31.07.25	
A	ISSUED FOR DA	A.E.	A.E.	14.07.25	
No	AMENDMENT	ENG	DRAFT	DATE	



P: 9037 0731
E: info@aeconsulting.com.au
W: www.aeconsulting.com.au

ARCHITECT



CLIENT

JOHN AND KATHY

SHEET SUBJECT

STORMWATER SECTIONS & DETAILS
SHEET 4

PROJECT: 3 GUNGAROO PLACE, BEVERLY HILLS, NSW 2209

DATE 10.07.2025	DRAWN A.E.	DESIGNED A.E.	CHECKED A.E.
SCALE @ A1 N.T.S.		JOB No D25066	
AUTHORISED A.E.		DWG No SW90	REV B

ISSUED FOR DA

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