- 1. ALL LINES ARE TO BE MIN. 100Ø UPVC @ MIN 1.0% GRADE UNLESS NOTED OTHERWISE.
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- 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.
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- 11. EXISTING STORMWATER DRAINAGE TO BE UTILISED WHERE CONTRACTOR SEE FIT.

LEGEND

LLOLIND	
RL	PIT SURFACE LEVEL
IL	INVERT LEVEL
TK	TOP OF KERB
sw sw	STORMWATER DRAINAGE PIPE
RWT RWT	DOWNPIPE TO RAIN WATER TANK
AG AG	Ø100 SUBSOIL PIPE
OF OF	RAIN WATER TANK OVER FLOW PIPE
RM RM	PROPOSED RISING MAIN
	EXISTING STORMWATER PIPE
O DP	PROPOSED Ø100 DOWN PIPE
O EX-DP	EXISTING DOWN PIPE
● CO	CLEAN OUT
DPS	DOWN PIPE SPREADERS
VD	VERTICAL DROP
VR	VERTICAL RISER
Ø FW	FLOOR WASTE 150Ø
	GRATED INLET PIT
	200mm WIDE GRATED DRAIN



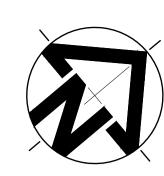
PUMP WELL DETAILS

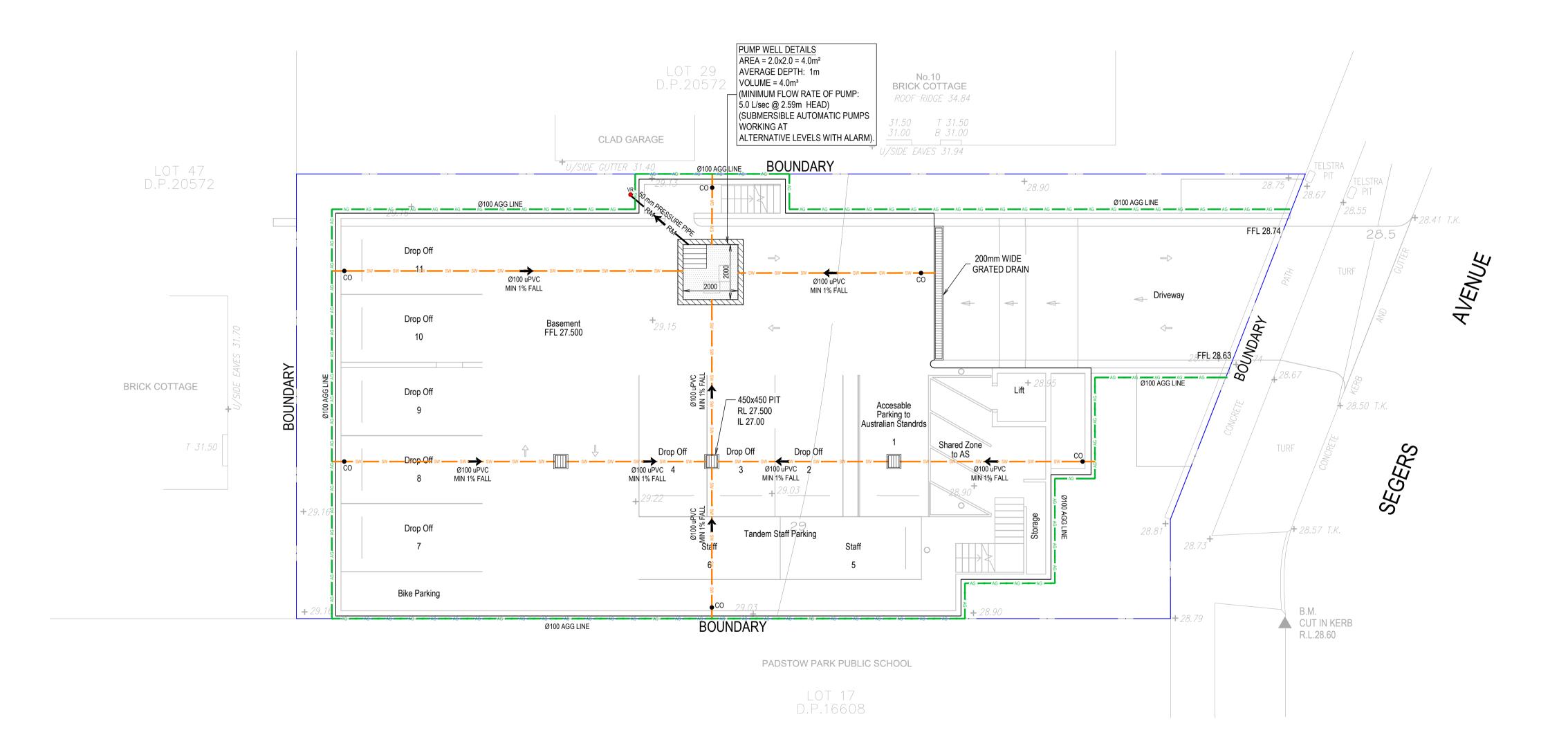
AREA DRAINING TO SUMP= 50.82m²

SUMP SIZE BASED ON 100 YEAR 2 HR STORM, I=37.9 mm/hr, Q=CIA/3600= 1 X 37.9 X 50.82 / 3600 = 0.5350 L/sec VOLUME REQUIRED = 0.5350 X (2X60X60) = 3852 L = 3.852m³ STORAGE PROVIDED 2.0 X 2.0 X 1 = 4.0m³.

PUMP OUT RATE BASED ON 100YR 5MIN STORM, I=204 mm/hr Q=CIA/3600= 1X 204 X 50.82/3600 = 2.88 L/sec Q= 5.0 L/sec (AS 3500 MIN.)

DUAL KS-08 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 I/sec (PER PUMP) AT 2.59m HEAD







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LEGEND

PIT SURFACE LEVEL
INVERT LEVEL
TOP OF KERB
STORMWATER DRAINAGE PIPE
DOWNPIPE TO RAIN WATER TANK
Ø100 SUBSOIL PIPE
RAIN WATER TANK OVER FLOW PIPE
PROPOSED RISING MAIN
EXISTING STORMWATER PIPE
PROPOSED Ø100 DOWN PIPE
EXISTING DOWN PIPE
CLEAN OUT
DOWN PIPE SPREADERS
VERTICAL DROP
VERTICAL RISER
FLOOR WASTE 150Ø
GRATED INLET PIT
200mm WIDE GRATED DRAIN



PROPOSED COMMERCIAL DEVELOPMENT

BEFORE YOU DI



• LOT SITE AREA = 602.2m²

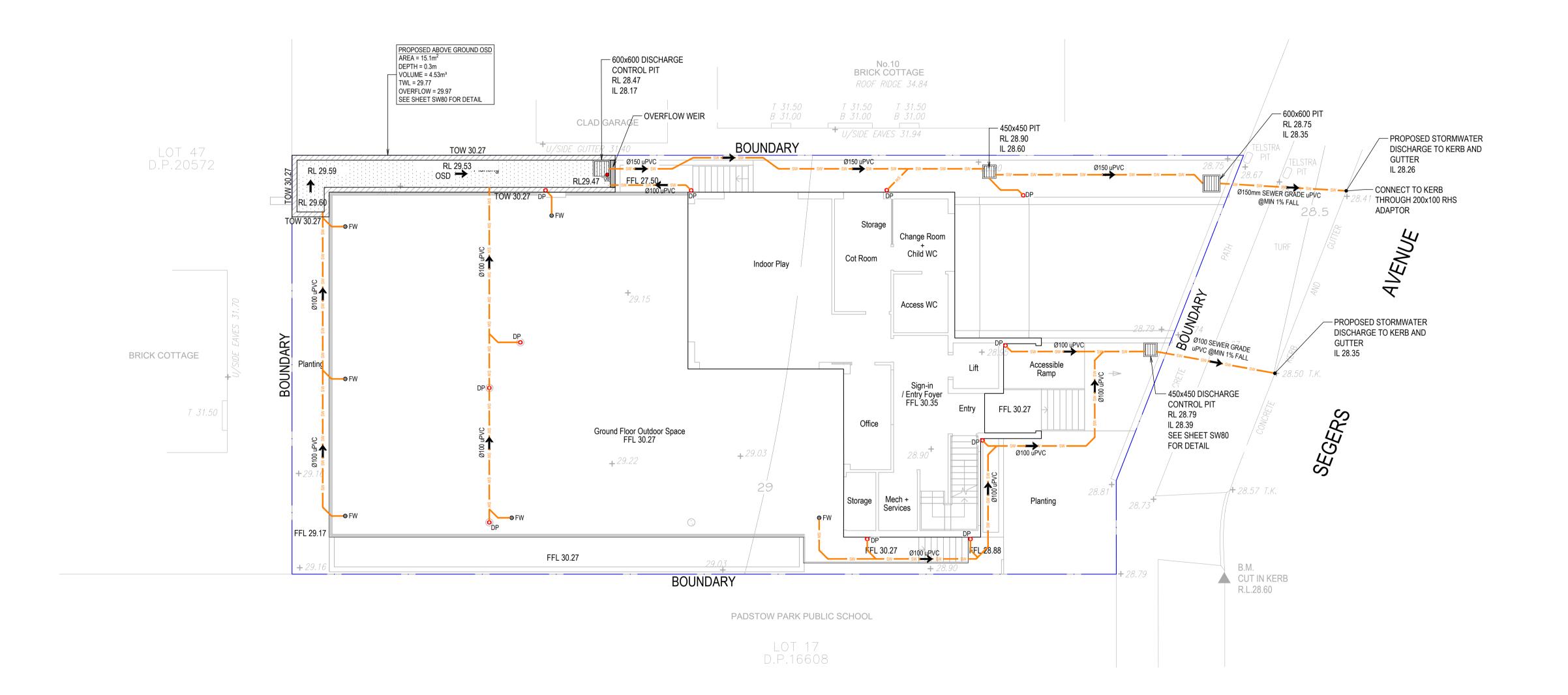
IN ACCORDANCE WITH COUNCIL GUIDELINES OSD IS REQUIRED FOR SUBJECT DEVELOPMENT:

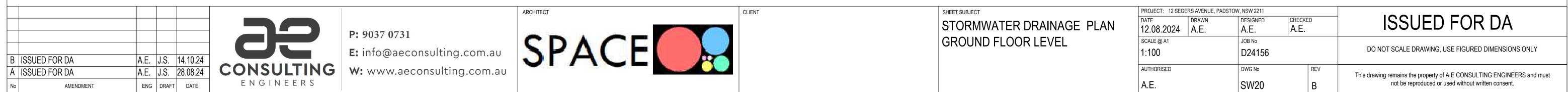
SSR FROM DRAINS = 6m³

PSD = 30L/s (DEVELOPMENT ENGINEERING STANDARDS, 2006, SECT. 9.2.2)

• RAINWATER TANK IS NOT REQUIRED.





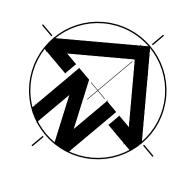


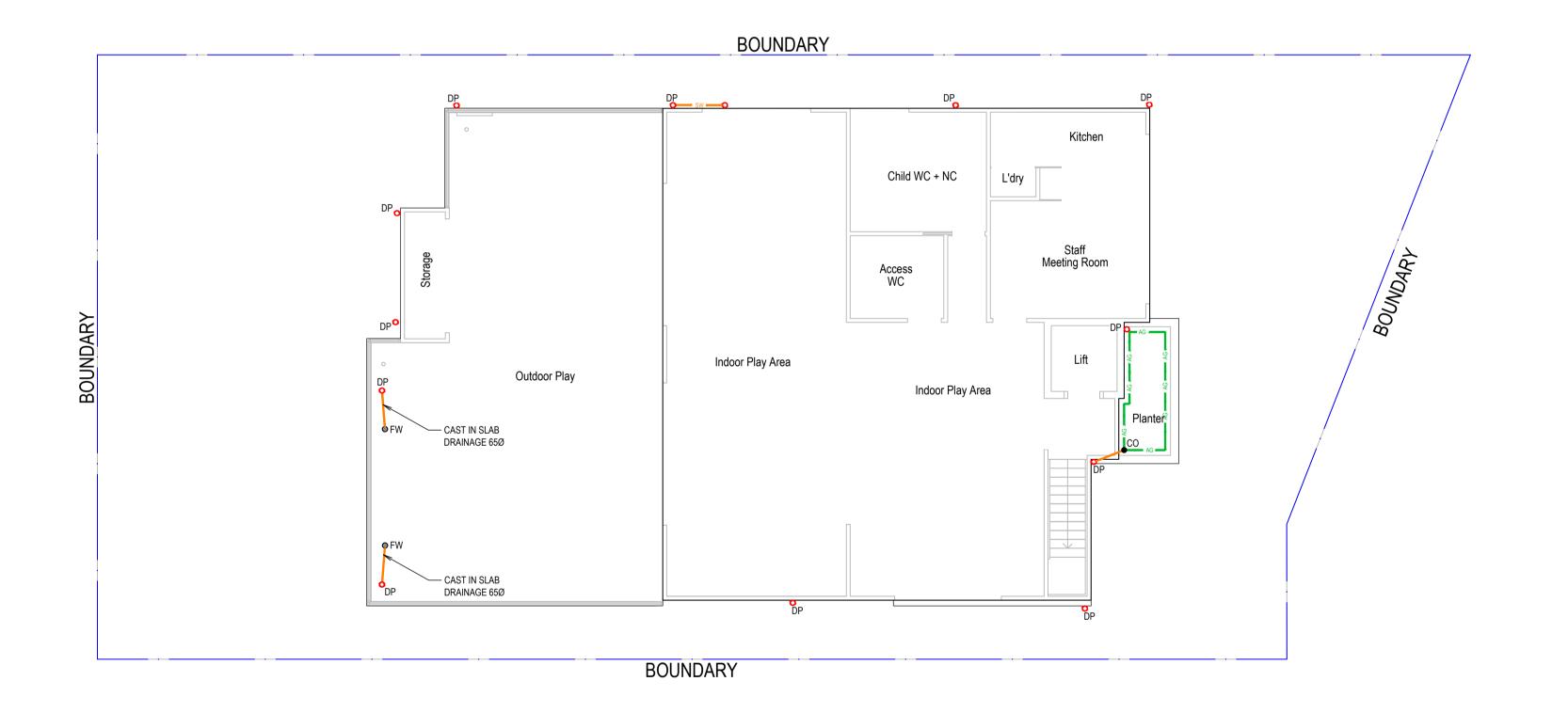
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LEGEND

PIT SURFACE LEVEL
INVERT LEVEL
TOP OF KERB
STORMWATER DRAINAGE PIPE
DOWNPIPE TO RAIN WATER TANK
Ø100 SUBSOIL PIPE
RAIN WATER TANK OVER FLOW PIPE
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VERTICAL DROP
VERTICAL RISER
FLOOR WASTE 150Ø
GRATED INLET PIT
200mm WIDE GRATED DRAIN

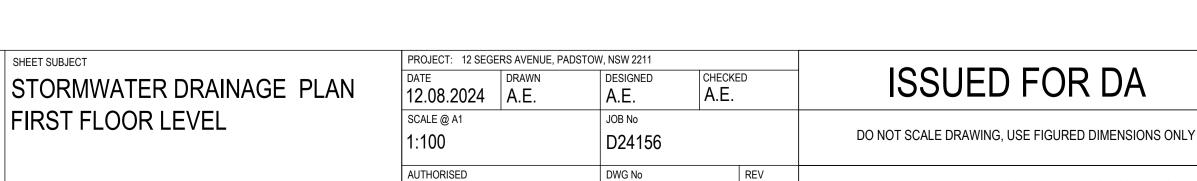






SHEET SUBJECT

FIRST FLOOR LEVEL



SW30

A.E.

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LEGEND

 \otimes FW

B ISSUED FOR DA

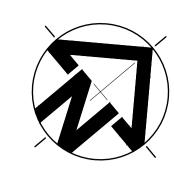
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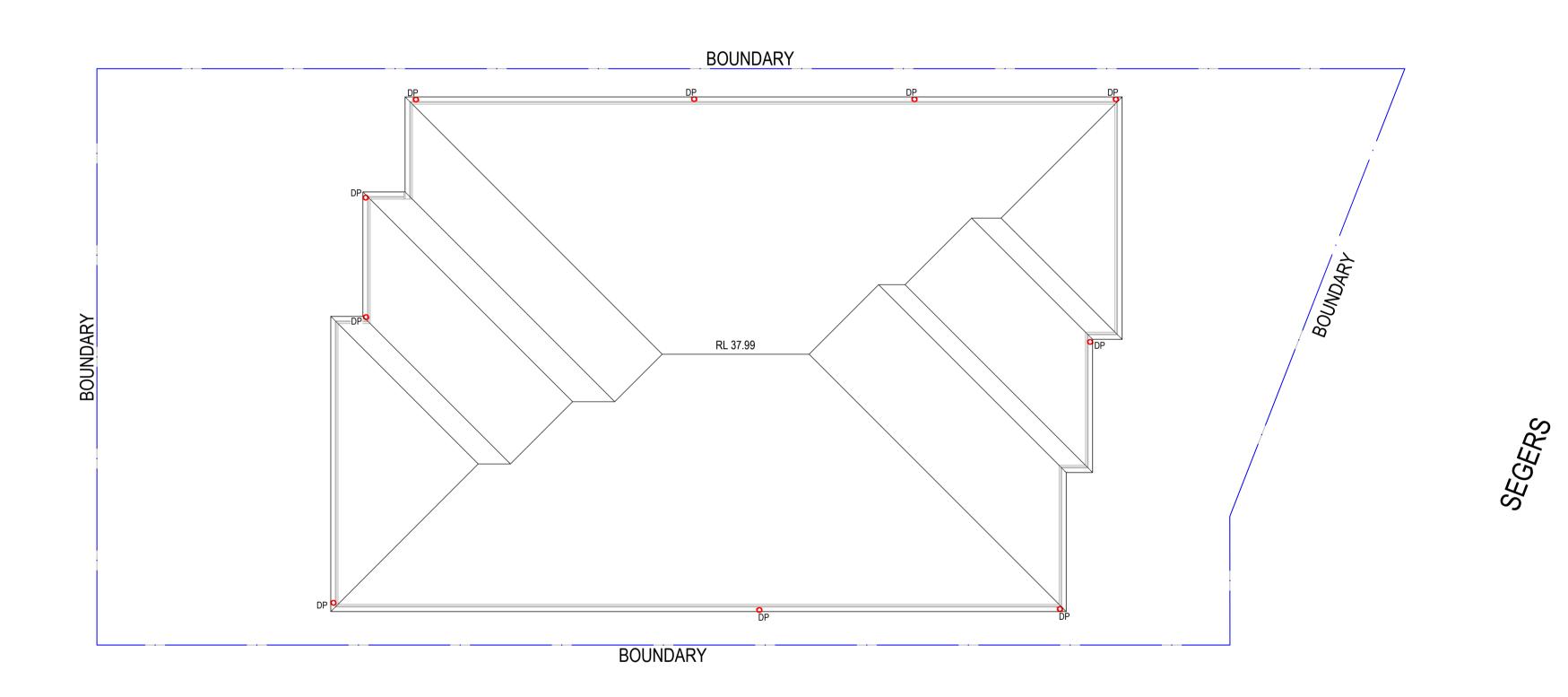
PIT SURFACE LEVEL **INVERT LEVEL** STORMWATER DRAINAGE PIPE DOWNPIPE TO RAIN WATER TANK Ø100 SUBSOIL PIPE RAIN WATER TANK OVER FLOW PIPE O DP PROPOSED Ø100 DOWN PIPE **CLEAN OUT** CO DOWN PIPE SPREADERS DPS

FLOOR WASTE 150Ø

A.E. J.S. 14.10.24











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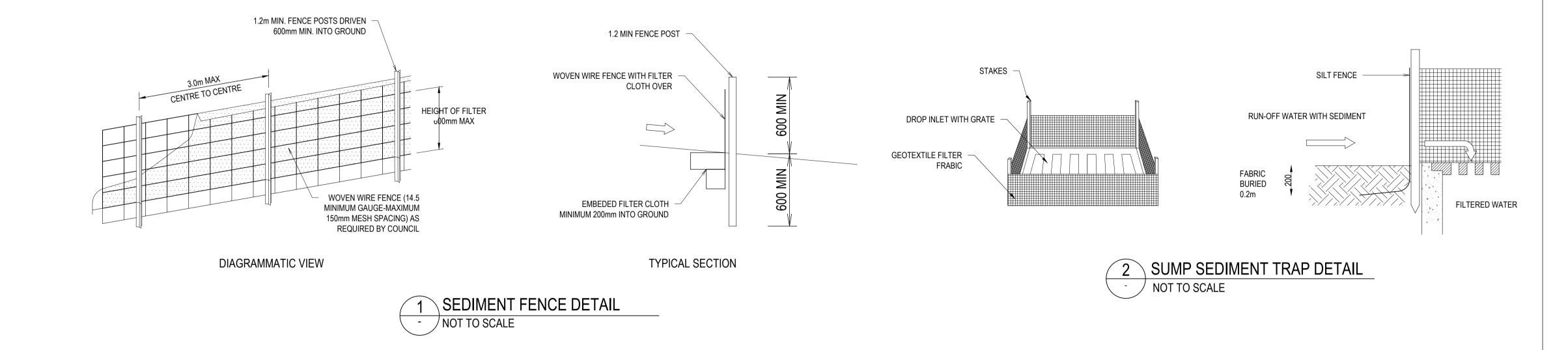
SHEET SUBJECT STORMWATER DRAINAGE PLAN ROOF LEVEL

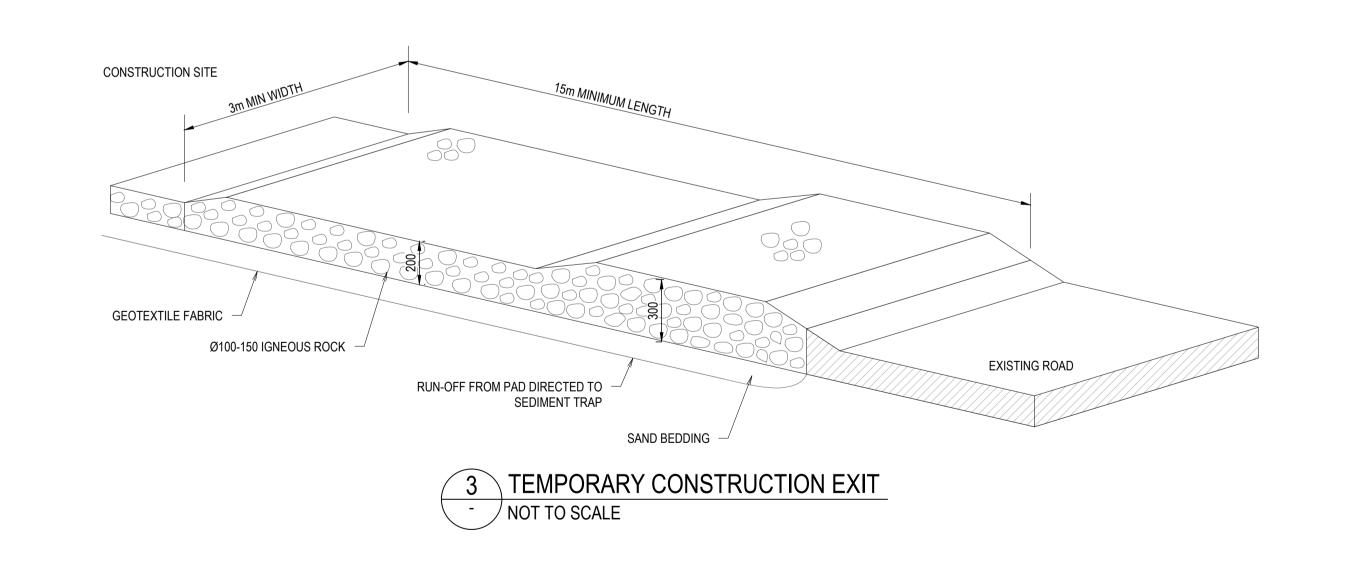
ROJECT: 12 SEGE	RS AVENUE, PADSTOV	V, NSW 2211				
TE 2.08.2024	A.E.	DESIGNED A.E.	CHECKE A.E.	D	ISSUED FOR DA	
CALE @ A1		JOB No				
100		D24156			DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY	
JTHORISED		DWG No		REV	This drawing remains the preparty of A.E. CONCLILITING ENGINEEDS and must	
.E.		SW40		В	This drawing remains the property of A.E CONSULTING ENGINEERS and must not be reproduced or used without written consent.	

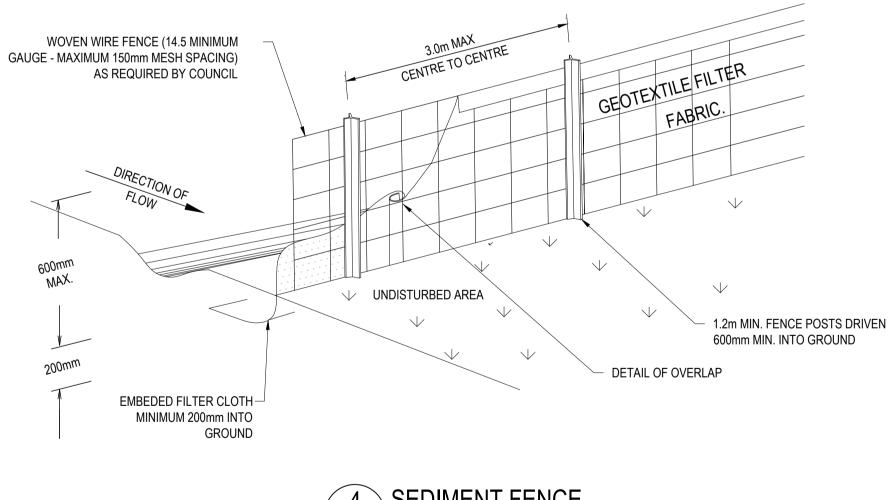
EROSION & SEDIMENT CONTROL PLAN

SCALE: 1:100 NOTES:

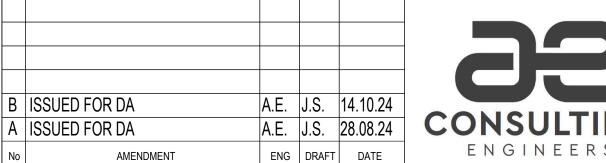
- THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO THE DEVELOPMENT AT THE SUBJECT SITE
- THE CONTRACTOR MUST ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS INSTRUCTED IN THIS SPECIFICATION
- 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
- DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS SHALL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL
- FINAL SITE LANDSCAPING SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES
- WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE BY FILTERING THROUGH AN APPROVED STRUCTURE
- TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES SHALL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING HAVE BEEN REHABILITATED
- EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THEY HAVE OPERATED EFFECTIVELY AND REMAIN IN WORKING CONDITION
- 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
- 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
- DO NOT STOCK PILE EXCAVATED MATERIAL ON THE ROAD WAY







SEDIMENT FENCE NOT TO SCALE





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SHEET SUBJECT **EROSION & SEDIMENT** CONTROL DETAILS

ROJECT: 12 SEGE	RS AVENUE, PADSTOV	V, NSW 2211						
ATE 2.08.2024	A.E.	A.E.	CHECKE A.E.	D	ISSUED FOR DA			
CALE @ A1		JOB No						
S SHOWN		D24156			DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY			
JTHORISED		DWG No		REV	This drawing remains the property of A.E CONSULTING ENGINEERS and must			
λ.Ε.		SW50		В	not be reproduced or used without written consent.			



COLOURS:

WARNING - RED
BORDER AND OTHER - BLACK

NOTES:

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

A SUITABLE ALARM SYSTEM POSITIONED AT ENTRANCE OF BASEMENT CARPARK TO PROVIDE A FLOOD WARNING IN CASE OF PUMP FAILURE (TO COUNCILS SPEC).

PUMP SPECIFICATIONS: STANDARD PUMP-OUT NOTES

THE PUMP-OUT SYSTEM IS DESIGNED TO WORK IN THE FOLLOWING MANNER
1. THE PUMPS SHALL BE PROGRAMMED TO WORK ALTERNATELY SO AS TO ALLOW BOTH PUMPS TO HAVE EQUAL OPERATION LOAD & PUMP LIFE.

- 2. A LOW LEVEL FLOAT SHALL BE PROVIDED TO ENSURE THAT THE MINIMUM REQUIRED WATER LEVEL IS MAINTAINED WITHIN THE SUMP AREA OF THE BELOW GROUND TANK. IN THIS REGARD THIS FLOAT WILL FUNCTION AS AN OFF SWITCH FOR THE PUMPS.
- 3. A SECOND FLOAT SHALL BE PROVIDED AT A HIGHER LEVEL, APPROXIMATELY 300mm ABOVE THE MINIMUM WATER LEVEL, WHEREBY ONE OF THE PUMPS WILL OPERATE & DRAIN THE TANK TO THE LEVEL OF THE LOW LEVEL FLOAT.
- 4. A THIRD FLOAT SHALL BE PROVIDED AT A HIGH LEVEL, WHICH IS APPROXIMATELY THE ROOF LEVEL OF THE BELOW GROUND TANK. THIS FLOAT SHOULD START THE OTHER PUMP THAT IS NOT OPERATING & ACTIVATE THE ALARM.
- 5. AN ALARM SYSTEM SHALL BE PROVIDED WITH A FLASHING STROBE LIGHT & A PUMP FAILURE WARNING SIGN WHICH ARE TO BE LOCATED AT THE DRIVEWAY ENTRANCE TO THE BASEMENT LEVEL. THE ALARM SYSTEM SHALL BE PROVIDED WITH A BATTERY BACK-UP IN CASE OF POWER FAILURE.



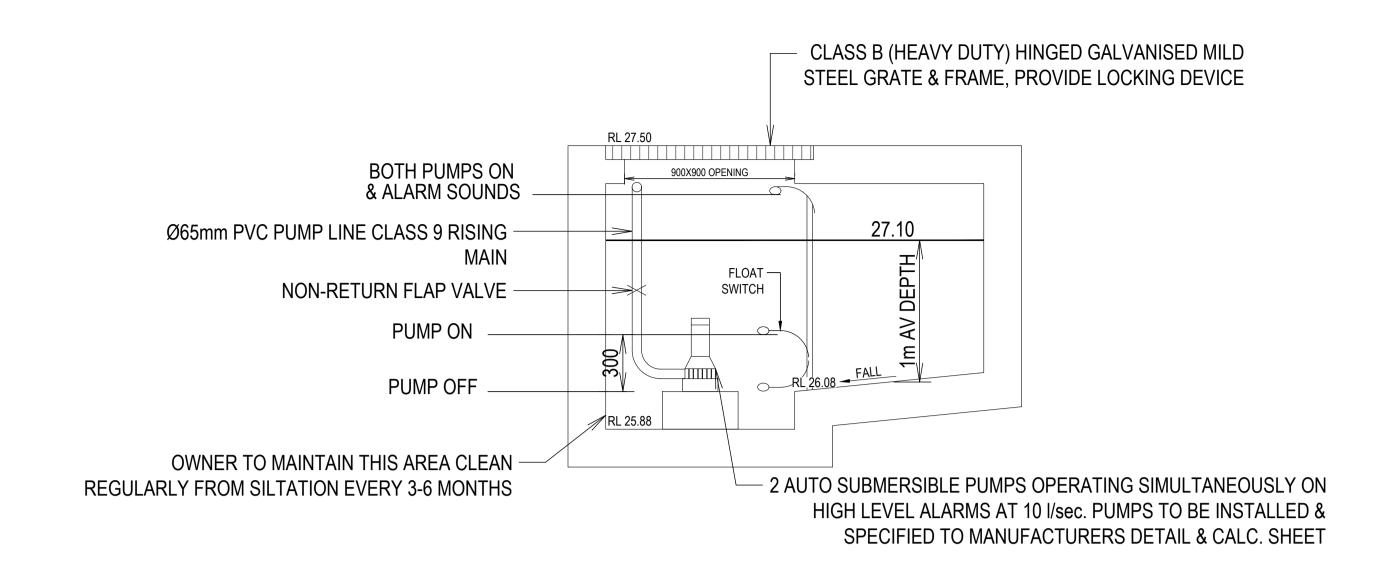
WIDTH 200MM

COLOURS:
"DANGER" AND BACKGROUND
ELLIPTICAL AREA
RECTANGLE CONTAINING ELIPSE
OTHER LETTERING AND BORDER

BLACK BLACK

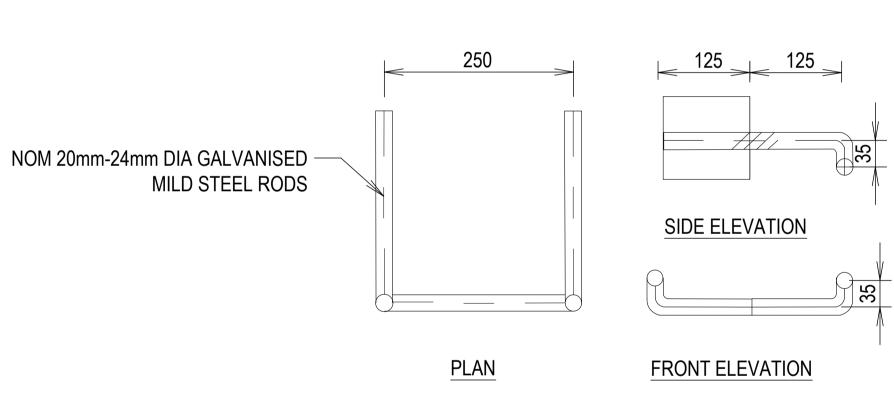
WHITE

MATERIALS: POLYPROPYLENE

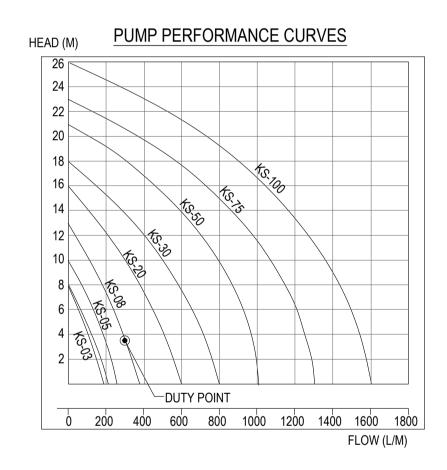


TYPICAL SECTION THROUGH PUMP PIT

SCALE 1:20
PUMP WELL VOLUME 4.0m³

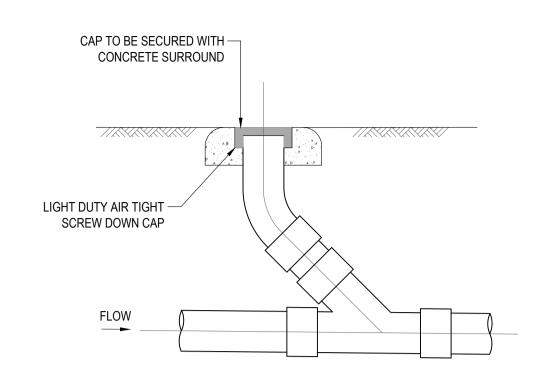




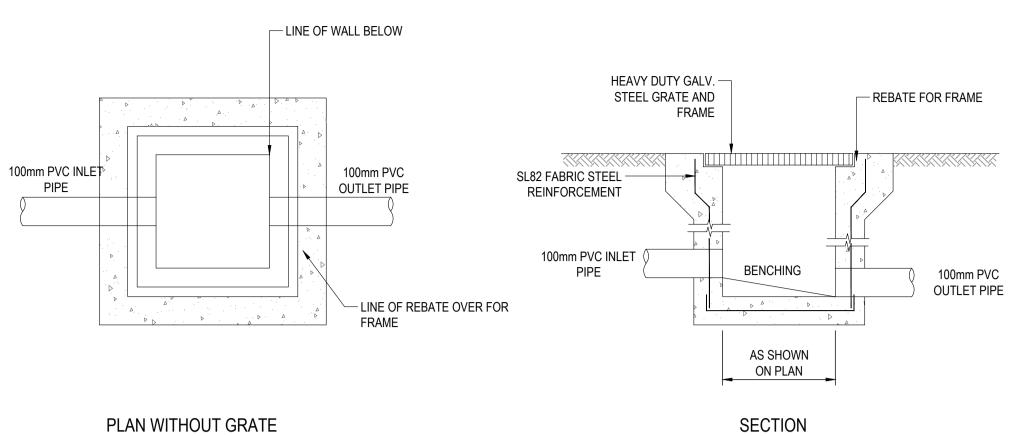


	0		0	tlet	Ra	ted	Max	imum	Weigh	Dimension			
Type	Out	.put	Ou	uet	Head C	apacity	Head	Capacity	weign		Dimension	IIIIelisioii	
	HP	kW	mm	Inch	М	LPM	М	LPM	Kg	L(mm)	W(mm)	H(mm)	
KS-03	1/3	0.25	40	1 1/2"	3	130	8	180	9	188	141	305	
KS-04	1/2	0.4	50	2"	5	150	8	220	11	208	140	359	
KS-05	1/2	0.4	50	2"	5	160	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	

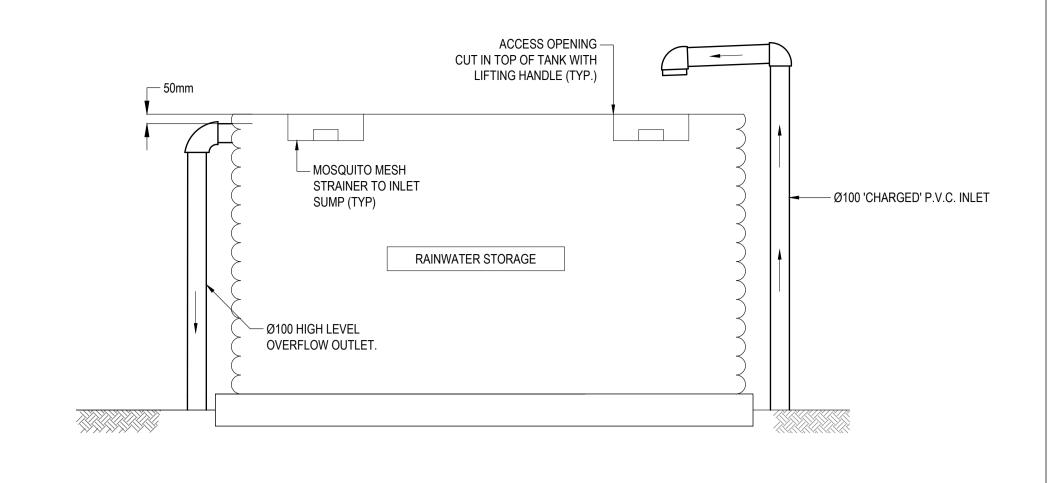
			ARCHITECT	CLIENT	SHEET SUBJECT	PROJECT: 12 SEGERS AVENUE, PAD	STOW, NSW 2211		
		P: 9037 0731			STORMWATER SECTIONS & DETAILS	DATE DRAWN A.E.	A.E.	A.E.	ISSUED FOR DA
		E: info@aeconsulting.com.au	SPACE		SHEET 1	SCALE @ A1 AS SHOWN	JOB № D24156		DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY
B ISSUED FOR DA A.E. A ISSUED FOR DA A.E.		W: www.aeconsulting.com.au	OI / CL			AUTHORISED	DWG No	REV	This drawing remains the property of A.E CONSULTING ENGINEERS and must
No AMENDMENT ENG	DRAFT DATE ENGINEERS					A.E.	SW60	В	not be reproduced or used without written consent.



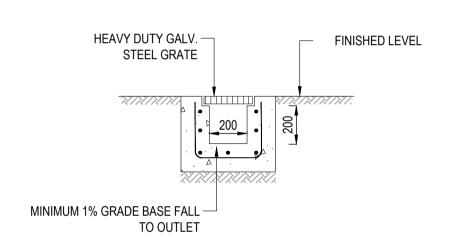




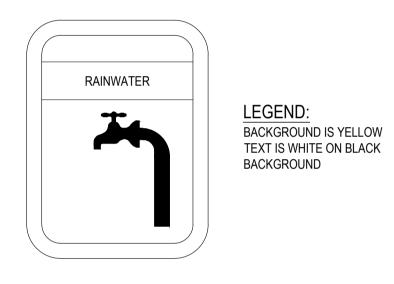




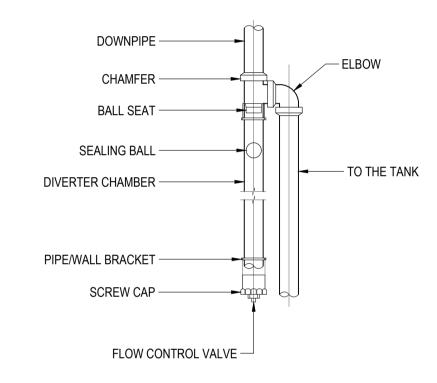




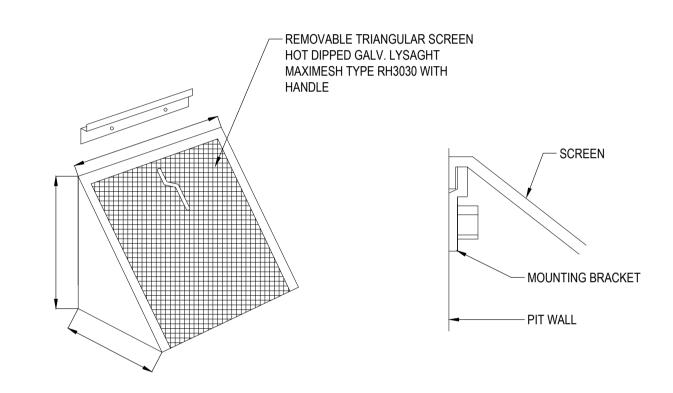




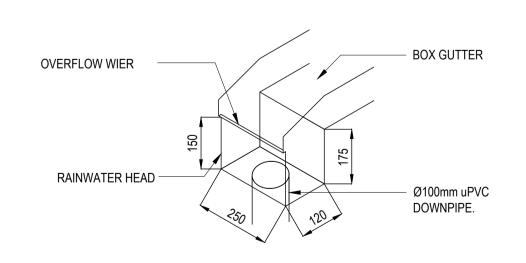




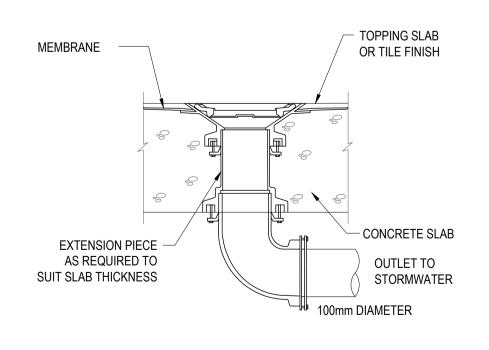








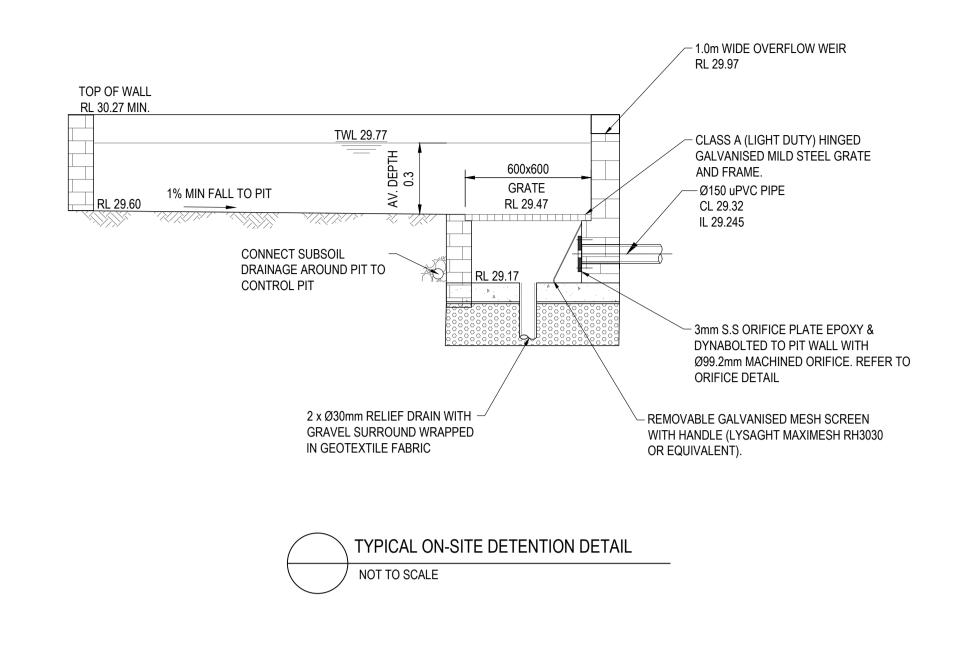


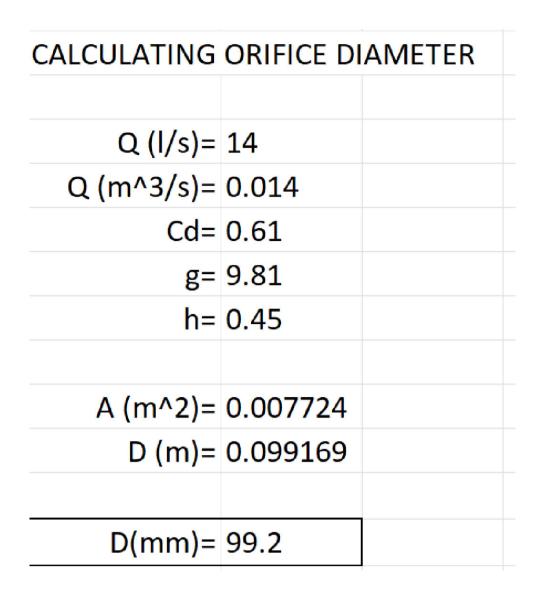


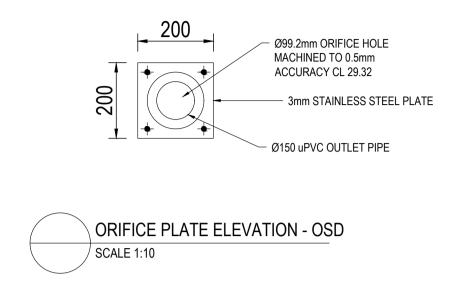


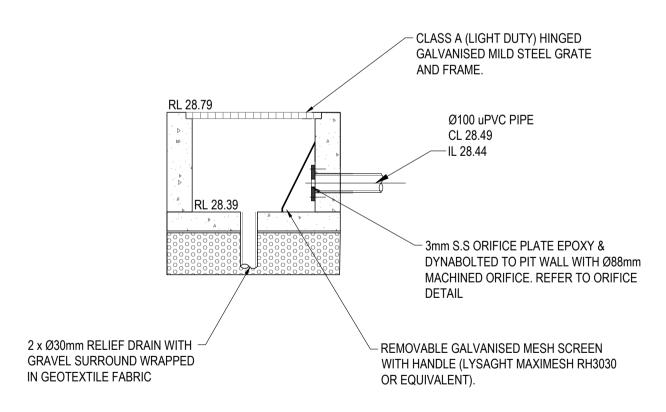
DRAIN MODEL SUMMARY TABLE - PSD FOR CONNECTION INTO KERB AND GUTTER										
STORM DURATION	STORM DURATION PRE-DEVELOPMENT POST DEVELOPMENT - OSD POST DEVELOPMENT - BYPASS POST DE									
20% AEP	15 L/S	11 L/S	6 L/S	17 L/S						
10% AEP	19 L/S	11 L/S	7 L/S	18 L/S						
5% AEP	22 L/S	12 L/S	8 L/S	20 L/S						
1% AEP	28 L/S	13L/S	11 L/S	24 L/S						

		P: 9037 0731	ARCHITECT	CLIENT	SHEET SUBJECT STORMWATER SECTIONS & DETAIL	PROJECT: 12 SEGERS AVENUE, PADST DATE 12.08.2024 A.E.		CHECKED A.E.	ISSUED FOR DA
B ISSUED FOR DA	A.E. J.S. 14.10.24	E: info@aeconsulting.com.au	SPACE		SHEET 2	SCALE @ A1 N.T.S.	JOB No D24156		DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY
A ISSUED FOR DA No AMENDMENT	A.E. J.S. 28.08.24 ENG DRAFT DATE CONSULTING ENGINEERS	W: www.aeconsulting.com.au				A.E.	DWG No SW70	REV B	This drawing remains the property of A.E CONSULTING ENGINEERS and must not be reproduced or used without written consent.







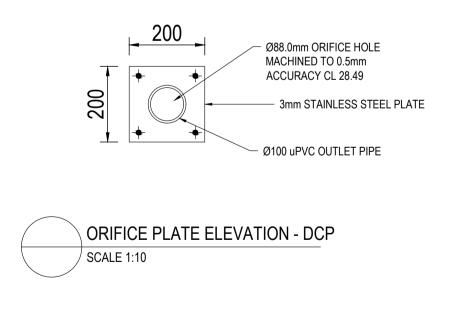


MINIMUM PIT DIMENSIONS									
SITE AREA DRAINING (m²) WIDTH (W) (mm) DEPTH (D) (mm)									
AREA < 400	450	200							
400 < AREA < 800	600	250							
800 < AREA < 1200	900	300							
1200 < AREA < 1800	1200	350							

DISCHARGE CONTROL PIT DETAIL @ BOUNDARY

NOT TO SCALE

CALCULATING	ORIFICE DIAMETER
Q (I/s)=	9
Q (m^3/s)=	0.009
Cd=	0.61
g=	9.81
h=	0.3
A (m^2)=	0.006081
D (m)=	0.087995
D(mm)=	88.0



			ARCHITECT	CLIENT	SHEET SUBJECT	PROJECT: 12 SEGERS AVENUE, PADS	STOW, NSW 2211		
		P: 9037 0731			STORMWATER SECTIONS & DETAILS	DATE DRAWN A.E.	A.E.	A.E.	ISSUED FOR DA
		F. 9037 0731			SHEET 3	SCALE @ A1	JOB No		
B ISSUED FOR DA A.E.	J.S. 14.10.24	E: info@aeconsulting.com.au	SPACE			N.T.S.	D24156		DO NOT SCALE DRAWING, USE FIGURED DIMENSIONS ONLY
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