

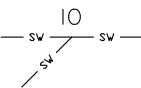
17–21 SHIRLEY ROAD, ROSEVILLE

STORMWATER MANAGEMENT PLAN

DRAWING INDEX:

SW-000	LEGEND
SW-001	PIPE LAYOUT- BASEMENT 3
SW-002	PIPE LAYOUT – GROUND FLOOR
SW-003	PIPE LAYOUT – FIRST FLOOR
SW-100	DRAINAGE DETAILS–SHEET1
SW-101	DRAINAGE DETAILS–SHEET2
SW-200	AREA CALCULATION
SD-001	EROSION AND SEDIMENT CONTROL PLAN

LEGEND:

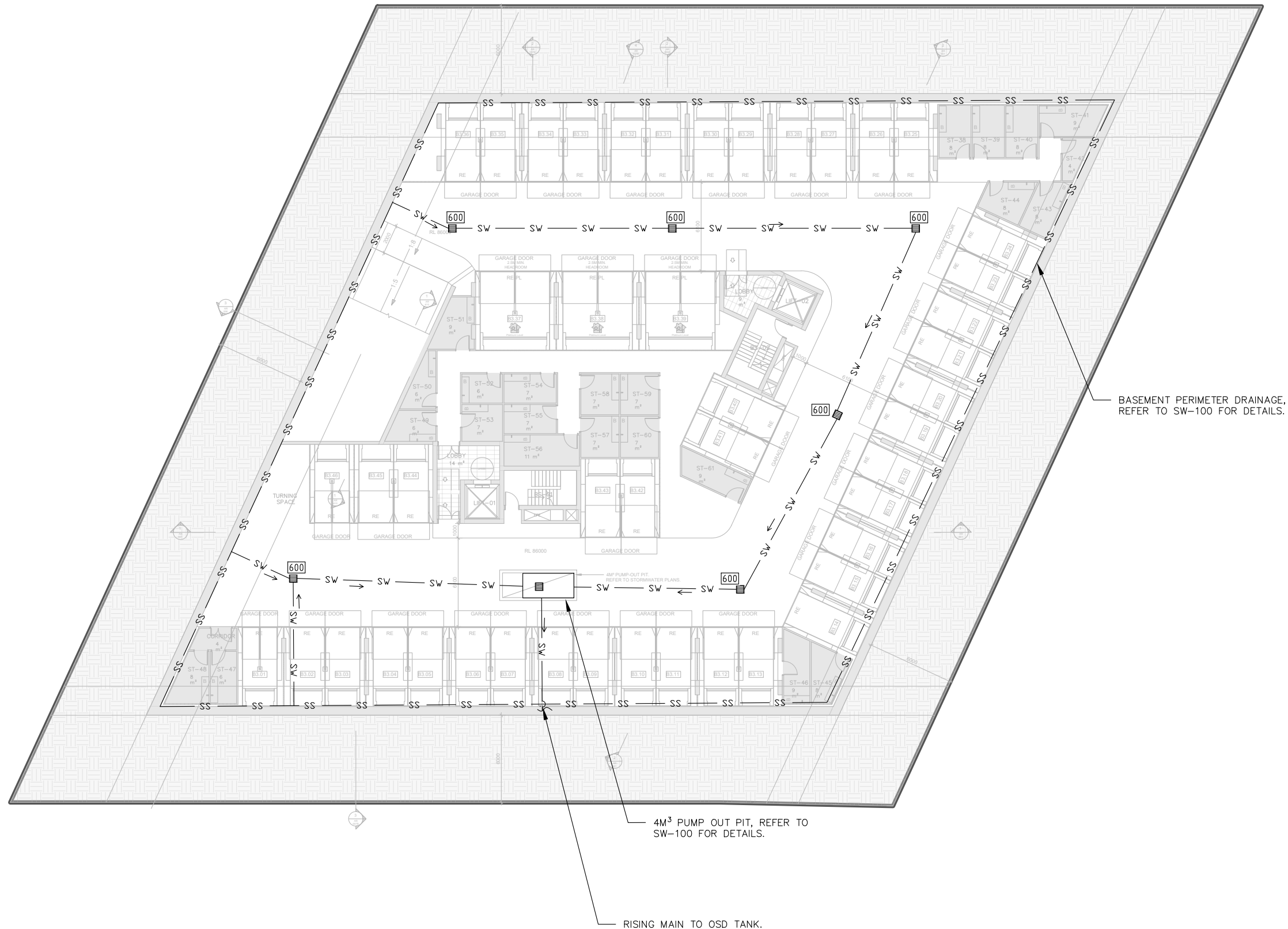
	DOWNPIPE
	STORMWATER PIPE
	RAINWATER PIPE
	SUBSOIL DRAIN
	DRAINAGE PIT
	INSPECTION OPENING

NOTES:

1. ALL DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
2. SITE LAYOUT BASED ON ARCHITECTURAL PLANS BY VERMONT (SEPTEMBER/2025) AND SURVEY PLANS BY CHADWICKCHENG CONSULTING SURVEYORS (FEBRUARY/2025).
3. LOCATION OF ALL SERVICES MUST BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
4. ALL STORMWATER DRAINAGE PIPES AND ASSOCIATED DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE RELEVANT STANDARDS, THE BUILDING CODE OF AUSTRALIA, MANUFACTURER’S RECOMMENDATIONS, SYDNEY CATCHMENT AUTHORITY RECOMMENDED PRACTICE, AND LOCAL COUNCIL, AS APPLICABLE.
5. ALL INVERT LEVELS PROVIDED ON THIS DRAWING ARE REDUCED TO AHD AND BASED ON INTERPOLATED SURFACE LEVELS AND SYSTEM REQUIREMENTS.
6. WHERE POSSIBLE, PIPEWORK SHALL BE LOCATED EXTERNAL TO THE BUILDING.
7. DOWNPIPES AND STORMWATER LINES TO BE SEALED DN100 uPVC UNLESS OTHERWISE NOTED.
8. STORMWATER PIPES TO BE GRADED AT A MINIMUM 1% UNLESS NOTED OTHERWISE.
9. ALTERNATIVE GUTTER AND DOWNPIPE CONFIGURATION MAY BE INSTALLED PROVIDED IT COMPLIES WITH AS3500.
10. ALL PIPE AND CONDUITS TO BE MARKED IN ACCORDANCE WITH AS1345 – 1995.
11. TRENCHES AND SERVICE SEPARATIONS IN ACCORDANCE WITH AS/NZS 5601, AS/NZS 3500, AND AS/CA S009.

NOT FOR CONSTRUCTION

this drawing is confidential and shall only be used for the purposes of this project.						Scale NA DO NOT SCALE. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED	THE SIGNING OF THIS TITLE BLOCK CONFIRMS THE DESIGN AND DRAFTING OF THIS PROJECT HAVE BEEN PREPARED AND CHECKED IN ACCORDANCE WITH THE STELLEN CONSULTING QUALITY ASSURANCE SYSTEM <table><tr><td>DESIGNED</td><td>AM</td><td>CHECKED</td><td>LES</td></tr><tr><td>DRAWN</td><td>AM</td><td>CHECKED</td><td>LES</td></tr><tr><td>APPROVED</td><td>LES</td><td>DATE</td><td>25/09/2025</td></tr></table>				DESIGNED	AM	CHECKED	LES	DRAWN	AM	CHECKED	LES	APPROVED	LES	DATE	25/09/2025	 Stellen Stellen Consulting ABN 61 149 095 189	17-21 SHIRLEY ROAD, ROSEVILLE			
DESIGNED	AM	CHECKED	LES																								
DRAWN	AM	CHECKED	LES																								
APPROVED	LES	DATE	25/09/2025																								
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	2	AM	12/09/2025	FOR DA SUBMISSION	YYA																						
	1	AM	03/09/2025	FOR DA SUBMISSION	YYA																						
	0	AM	10/04/2025	FOR DA SUBMISSION	LES																						
No.	BY	DATE	DESCRIPTION		APPD	Size A3				Status FOR DA SUBMISSION	Dwg No. P171443-DR-SW-000	Rev. 3															



PLAN
1

PIPE LAYOUT-BASEMENT 3

1:300

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DRAWN	AM	CHECKED	LES
APPROVED	LES	DATE	25/09/2025

**Stellen**

Stellen Consulting ABN 61 149 095 189

17-21 SHIRLEY ROAD, ROSEVILLE	
STORMWATER LAYOUT	

Size	A3	Status	FOR DA SUBMISSION	Org No.	P171443-DR-SW-001	Rev.	2
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SHIRLEY ROAD

PLAN
3

PIPE LAYOUT-FIRST FLOOR

1:300

NOT FOR CONSTRUCTION

REVISIONS				
No.	BY	DATE	DESCRIPTION	APPD
3	AM	25/09/2025	FOR DA SUBMISSION	YYA
2	AM	12/09/2025	FOR DA SUBMISSION	YYA
1	AM	03/09/2025	FOR DA SUBMISSION	YYA
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Scale
1:300

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APPROVED	LES	DATE	25/09/2025



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17-21 SHIRLEY ROAD, ROSEVILLE			
STORMWATER LAYOUT			
Size	Status	Org No.	Rev.
A3	FOR DA SUBMISSION	P171443-DR-SW-003	3

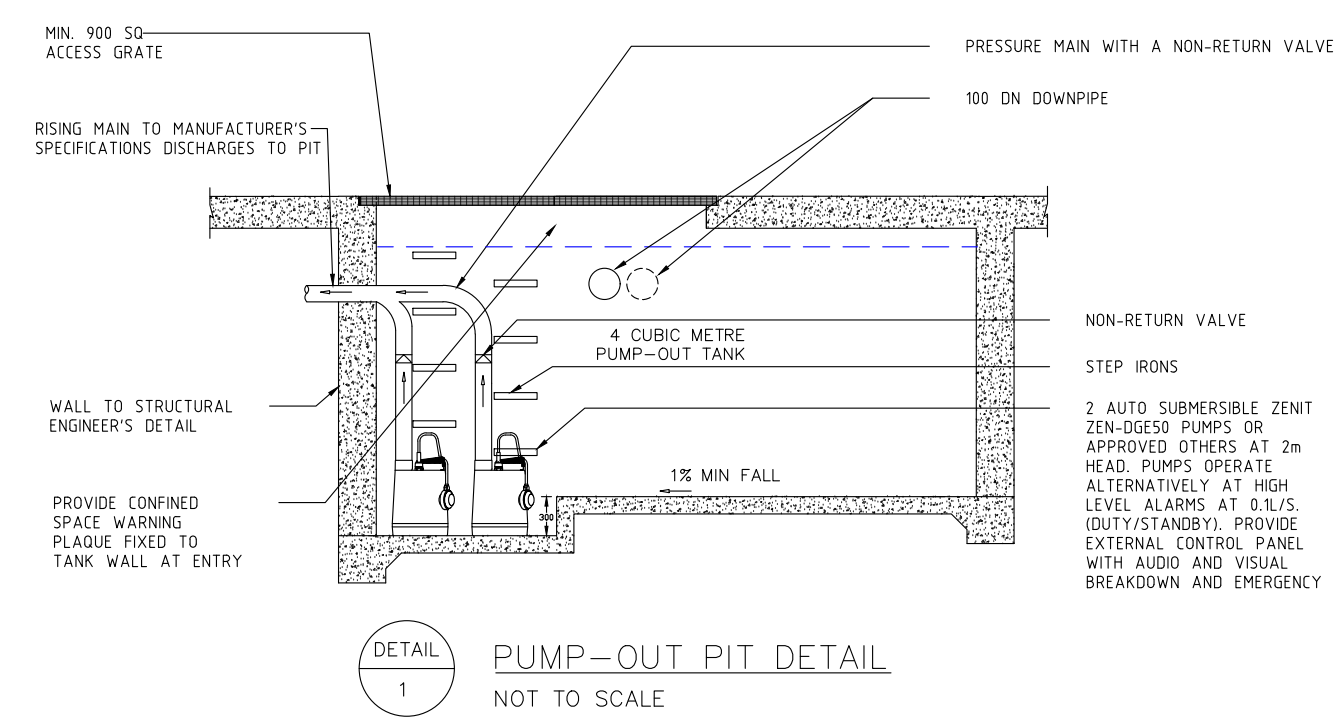
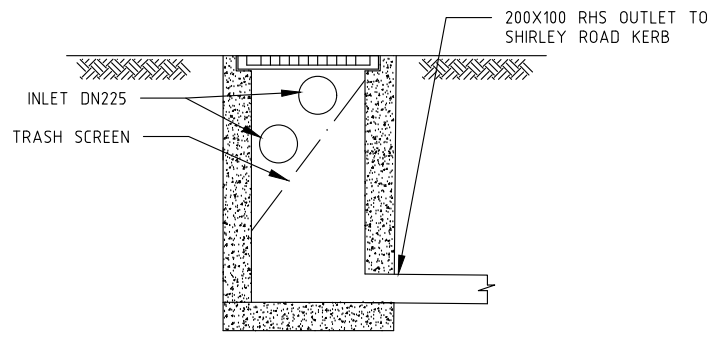
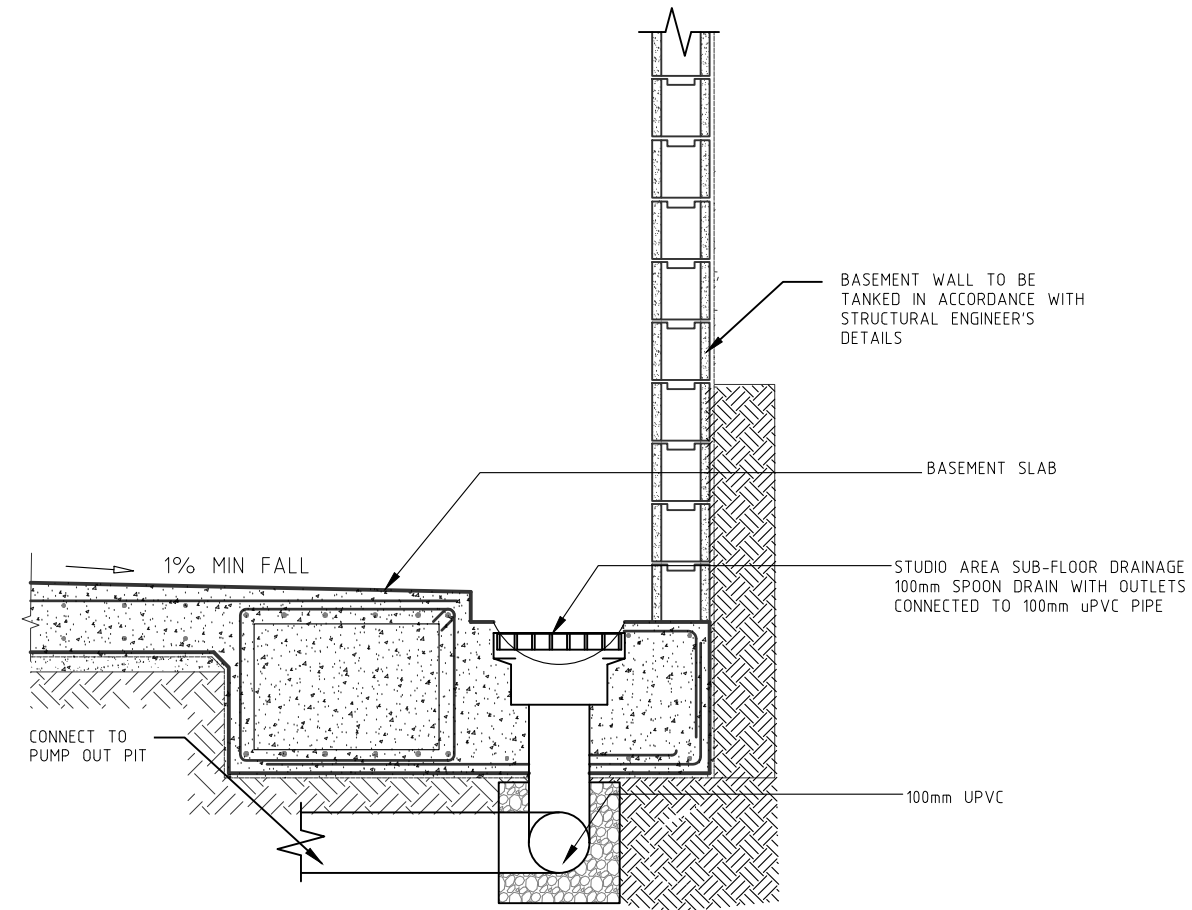


TABLE 1 – PUMP DESIGN BASED ON 100YEAR 2 HOUR STORM EVENT		
VOLUME V = Q x T x I	4.0 m ³	
PUMP CAPACITY CHECK		
PUMP CAPACITY (l/s)	PUMP VOLUME IN 30 MIN (m ³)	REQUIRED STORAGE VOLUME (m ³)
0.60	1.08	3.52
0.50	0.90	3.70
0.40	0.72	3.88*
0.30	0.54	4.06



- NOTES:
- 'LYSAGHT' MAXIMESH RH3030 (HOT DIPPED GALVANISED) OR EQUIVALENT.
 - MAXI MESH SCREENS MUST BE PLACED SUCH THAT THE LONG AXIS OF THE OVAL SHAPED HOLES ARE ORIENTATED HORIZONTALLY WITH THE PROTRUDING LIP ANGLED UPWARDS AND FACING TOWARDS THE OUTLET



DETAIL 2
BASEMENT PERIMETER DRAINAGE DETAIL
NOT TO SCALE

AS NOTED

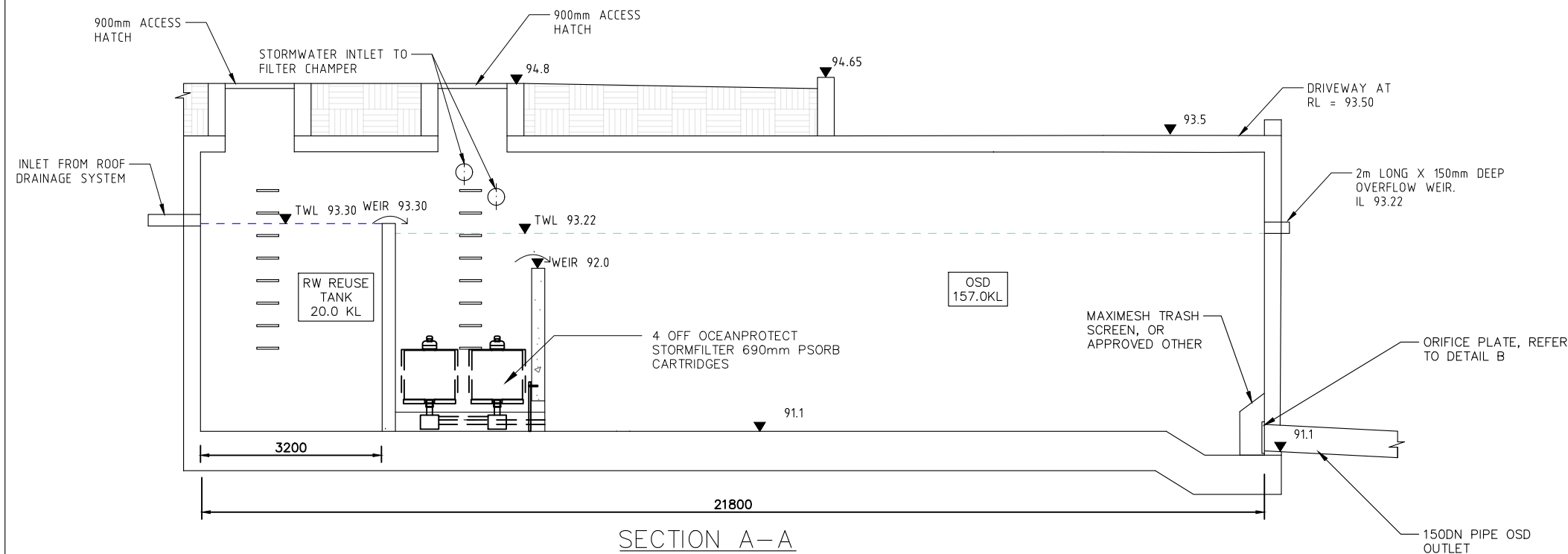
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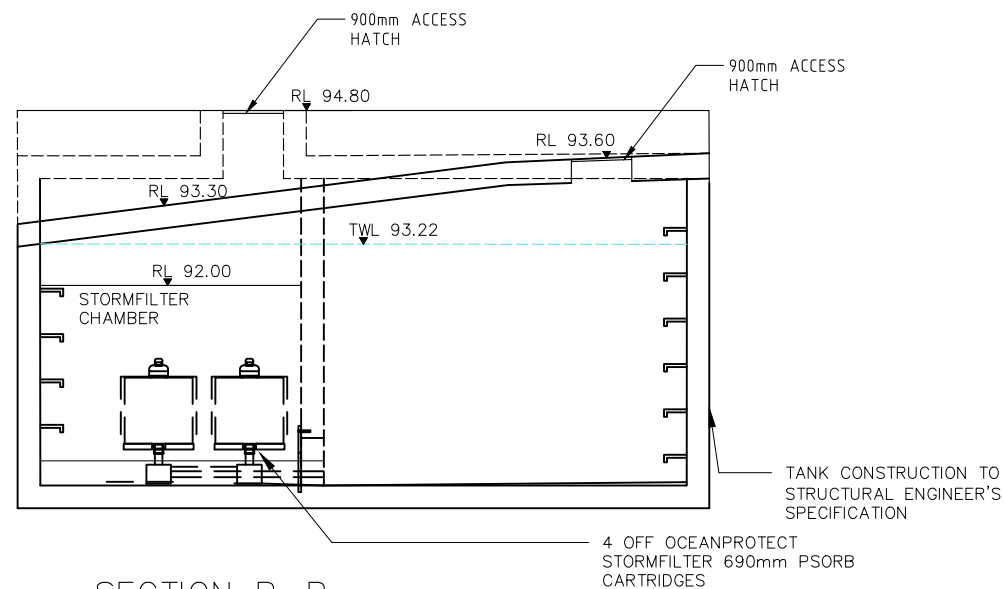
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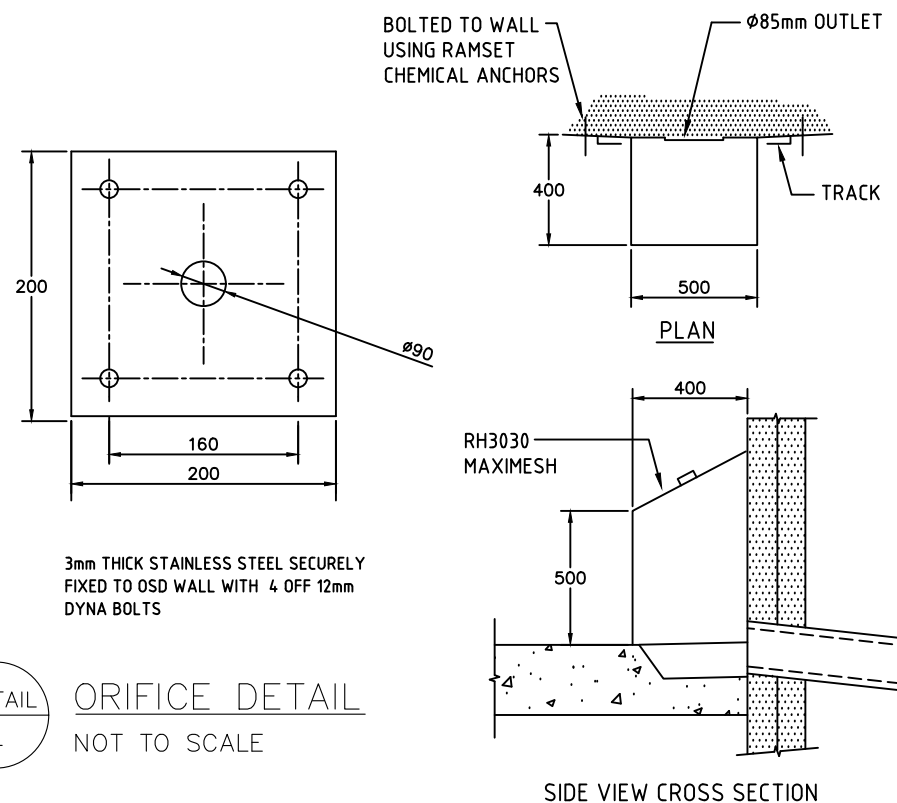
17-21 SHIRLEY ROAD, ROSEVILLE			
DRAINAGE DETAILS - SHEET 1			
Size	Status	Dwg No.	Rev.
A3	FOR DA SUBMISSION	P171443-DR-SW-100	1



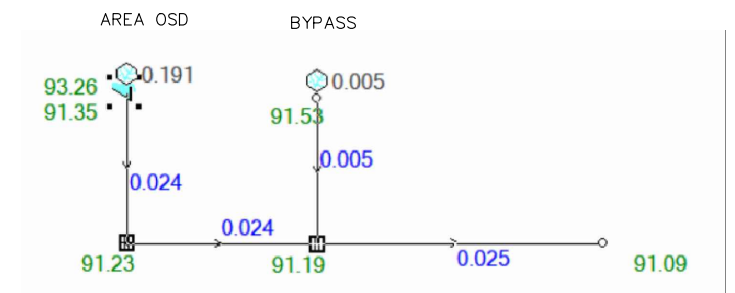
DETAIL 5 ON SITE DETENTION/RW REUSE TANK
NOT TO SCALE



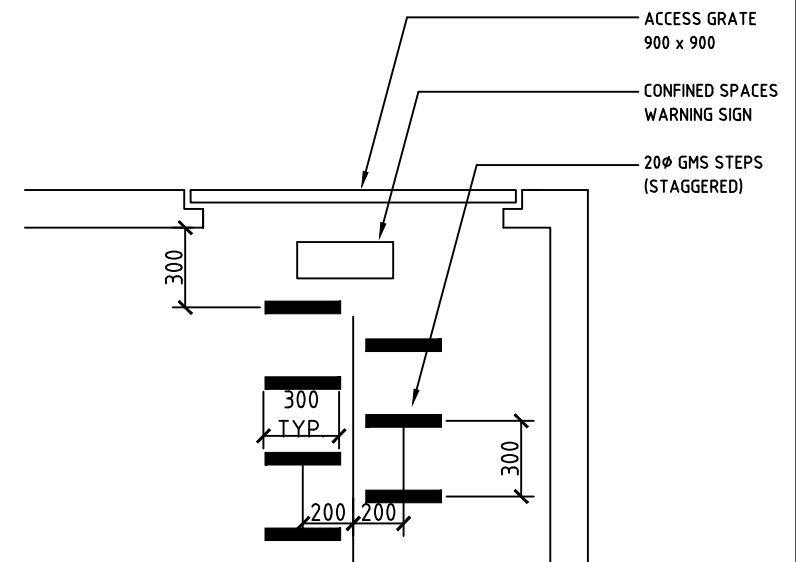
SECTION B-B



DETAIL 4 ORIFICE DETAIL
NOT TO SCALE



DETAIL 6 DRAINS MODEL 1% AEP EVENT
NOT TO SCALE



CONFINED SPACE WARNING SIGN TO BE LOCATED AT EACH PIT ENTRANCE OF UNDERGROUND TANK INCLUDING CONTROL PIT.

COLOURS: "DANGER" AND BACKGROUND WHITE
ELLIPTICAL AREA RED
RECTANGLE CONTAINING ELLIPSE BLACK
OTHER LETTERING AND BORDER BLACK

MATERIAL: POLYPROPYLENE

REVISIONS				
No.	BY	DATE	DESCRIPTION	APPD
2	AM	12/09/2025	FOR DA SUBMISSION	YYA
1	AM	03/09/2025	FOR DA SUBMISSION	YYA
0	AM	10/04/2025	FOR DA SUBMISSION	LES

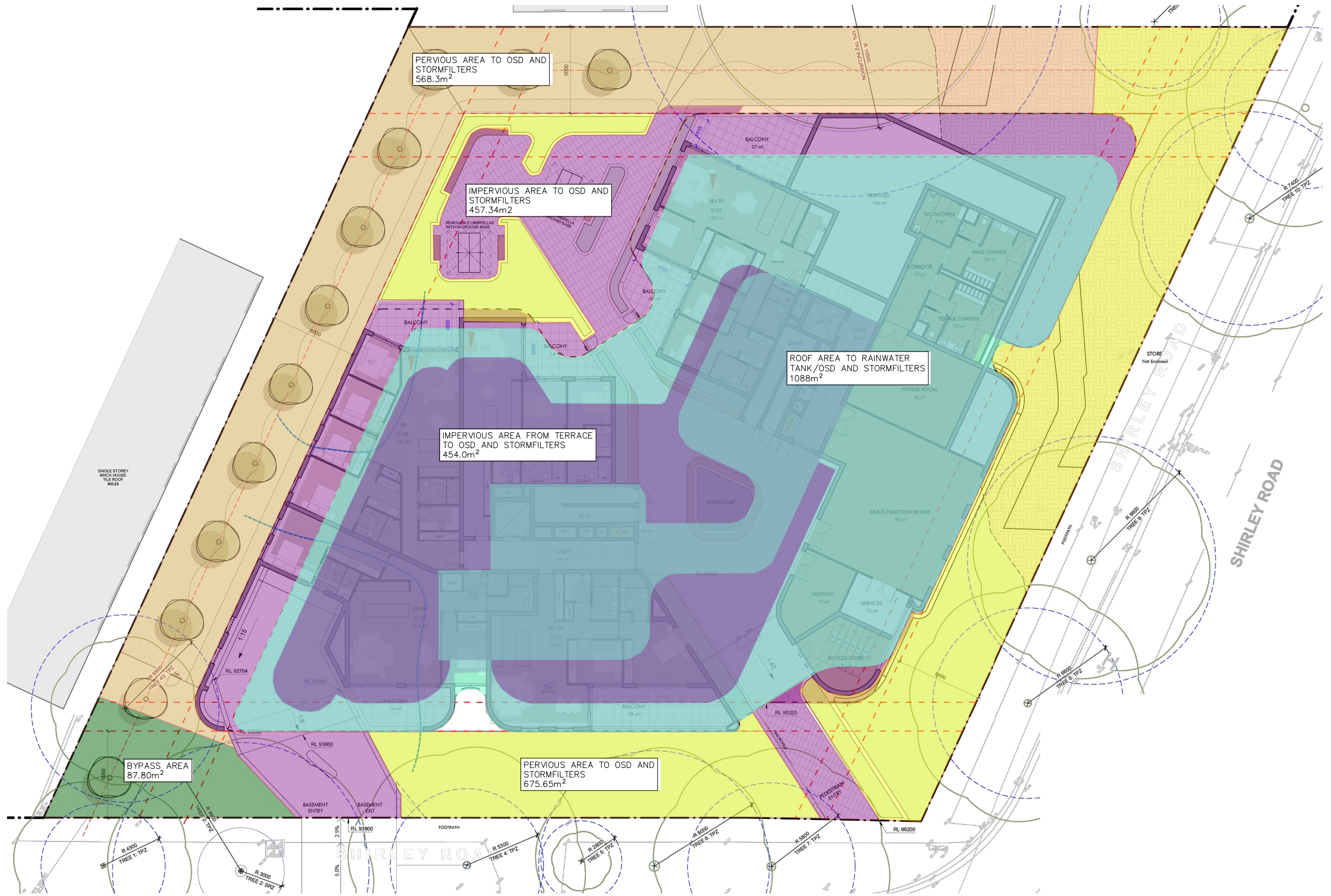
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APPROVED	LES	DATE	12/09/2025



17-21 SHIRLEY ROAD, ROSEVILLE	
DRAINAGE DETAILS - SHEET 2	

Size	Status	Drng No.	Rev.
A3	FOR DA SUBMISSION	P171443-DR-SW-101	2



REVISIONS				
No.	BY	DATE	DESCRIPTION	APPD
1	AM	12/09/2025	FOR DA SUBMISSION	YYA
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Scale

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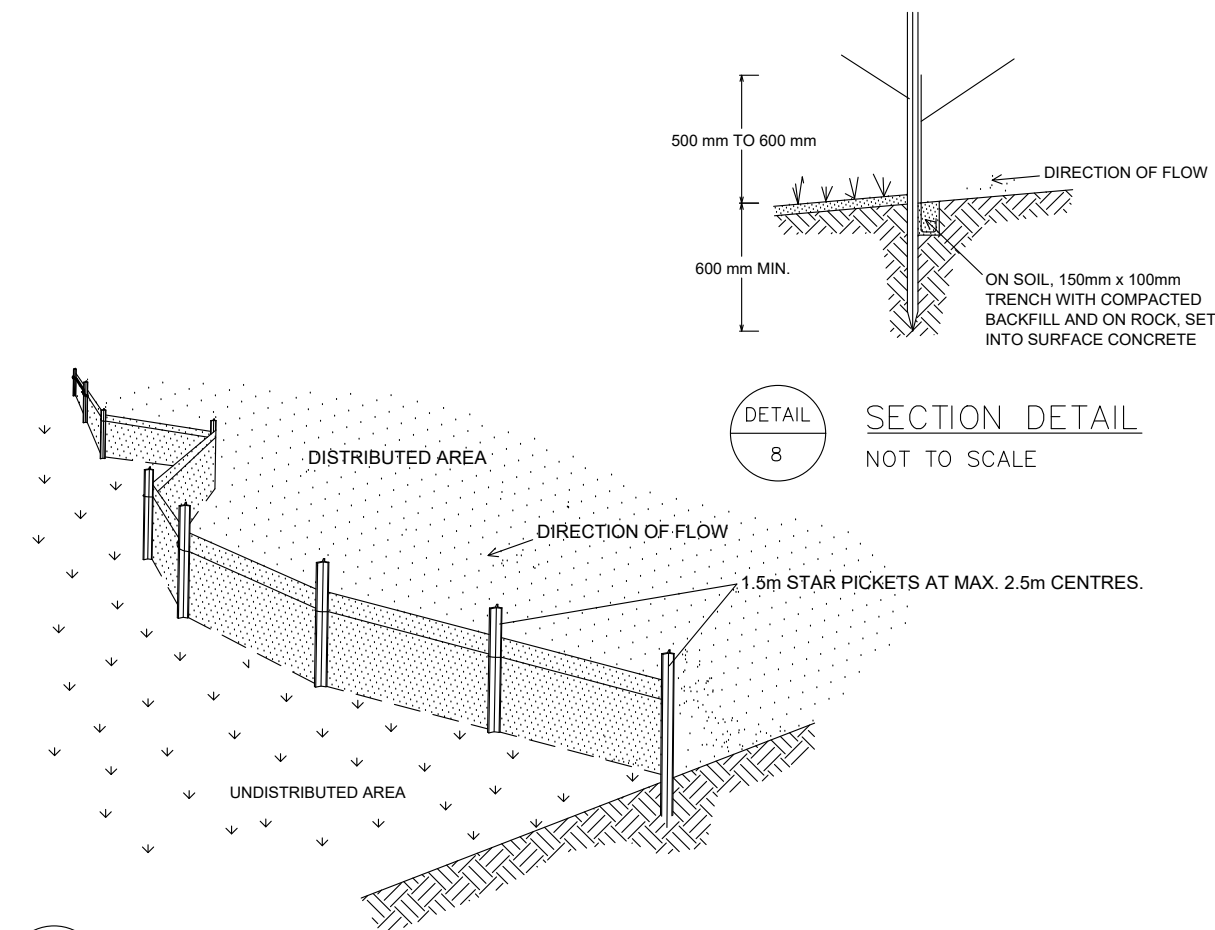
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DRAWN	AM	CHECKED	YYA
APPROVED	YYA	DATE	12/09/2025

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17-21 SHIRLEY ROAD, ROSEVILLE				
AREA CALCULATION				
Size	A3	Status	FOR DA SUBMISSION	Drng No.
				P171443-DR-SW-200
				Rev.
				1



DETAIL
8

SECTION DETAIL
NOT TO SCALE

DETAIL
7

TYPICAL SEDIMENT FENCE
NOT TO SCALE

GENERAL REQUIREMENTS

THE FOLLOWING EROSION AND SEDIMENT CONTROL PLAN (ESCP) HAS BEEN DEVELOPED IN GENERAL ACCORDANCE WITH LANDCOM (2004) – MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION, OTHERWISE KNOWN AS "THE BLUE BOOK". THIS PLAN SHOULD ALSO BE READ IN CONJUNCTION WITH MANAGING URBAN STORMWATER – SOILS AND CONSTRUCTION (VOLUME 2A INSTALLATION OF SERVICES).

SITE ESTABLISHMENT

PRIOR TO THE COMMENCEMENT OF EARTHWORKS ON THE SITE THE FOLLOWING SHALL BE UNDERTAKEN AS A MINIMUM:

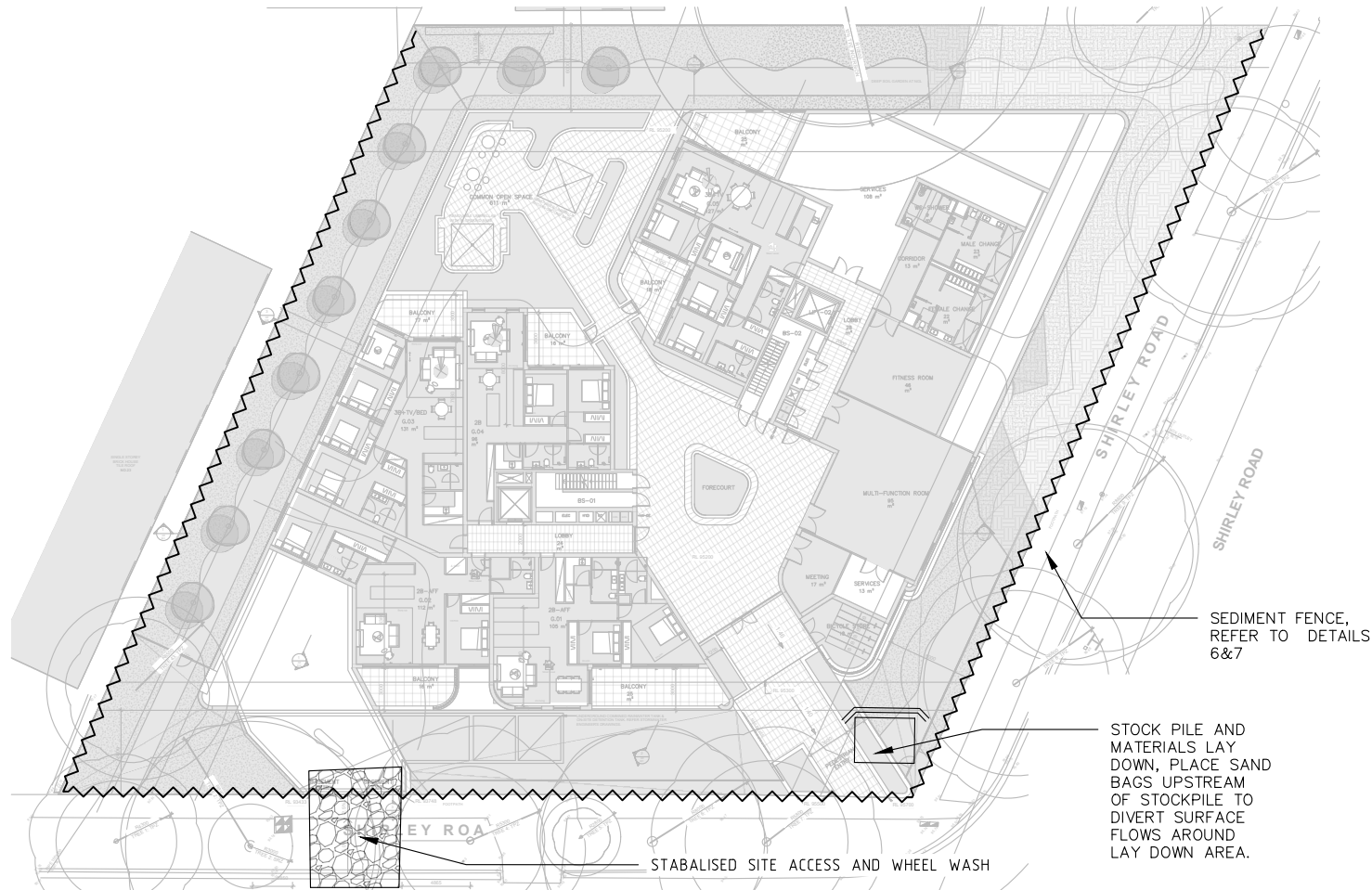
1. ERECT SAFETY FENCING WITH SIGNAGE CLEARLY INDICATING THAT THE SITE IS A CONSTRUCTION ZONE AND ACCESS IS RESTRICTED AS DEEMED NECESSARY.
2. ERECT CLEARLY VISIBLE BARRIER FENCING AT LOCATIONS SHOWN OR IF NOT SHOWN AT THE DISCRETION OF THE SITE SUPERINTENDENT TO ENSURE TRAFFIC IS CONTROLLED AND TO PROHIBIT UNNECESSARY SITE DISTURBANCE.
3. WHERE REQUIRED AT THE DISCRETION OF THE SITE SUPERINTENDENT, INSTALL STABILISED SITE ACCESS AT SITE ACCESS POINT TO PREVENT CONSTRUCTION EQUIPMENT FROM CARRYING SEDIMENT OFF THE SITE ONTO SURROUNDING ROADS.
4. PROVIDE GERNI PRESSURE CLEANER AT SITE EXIT POINT FOR TYRE WASH DOWN AT THE DISCRETION OF THE SITE SUPERINTENDENT.
5. INSTALL SEDIMENT AND EROSION CONTROL DEVICES IN ACCORDANCE WITH THE CONSTRUCTION DETAILS SPECIFIED IN THIS DRAWING SET AND/OR THE REQUIREMENTS OF THE 'BLUE BOOK'.

CONSTRUCTION

6. USE SANDBAGS, HAY BALES AND/OR GRAVEL FILLED GEOTEXTILE SOCKS TO FILTER AND CONVEY STORMWATER RUNOFF WITHIN THE SITE.
7. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
8. INLET FILTERS SHALL BE INSTALLED WHERE SHOWN TO PREVENT WATER FROM DIRECTLY ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE. IF THE LOCATION OF INLET FILTERS ARE NOT SHOWN ON THE PLAN THEIR LOCATION SHALL BE AT THE DISCRETION OF THE SUPERINTENDENT.
9. STAGE WORK AND PROGRAMMING OF CONSTRUCTION ACTIVITIES TO MINIMISE THE EXTENT AND DURATION OF OPEN EXCAVATION. AVOID OPENING TRENCHES WHENEVER THE RISKS OF STORMS ARE HIGH.
10. DIVERT SURFACE WATER AWAY FROM EXCAVATION AREAS WITH SANDBAGS OR EQUIVALENT.
11. FOR DEWATERING OF EXCAVATION AREAS SET UP TEMPORARY DEWATERING PUMP OUT SYSTEM AS REQUIRED AND ENSURE FLOCCULATION IS USED IF WATER IS NOT CLEAR (i.e. SEDIMENT > 50mg/L). FOR RATES AND AGENTS REFER APPENDIX E NSW DEPARTMENT OF HOUSING "MANAGING URBAN STORMWATER SOILS & CONSTRUCTION". DISCHARGE SHALL BE DIRECTLY TO COUNCIL'S PIPED DRAINAGE SYSTEM. DO NOT DISCHARGE TO THE KERB.
12. STOCKPILES SHALL BE LOCATED NO CLOSER THAN 2m (PREFERABLY 5m) FROM CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS. PROTECT STOCKPILES FROM EROSION BY RAIN AND SURFACE FLOWS.
13. ENSURE CHEMICAL AND FUELS ARE STORED WITHIN BUNDED AREAS AND ELEVATED ABOVE POTENTIAL FLOW PATHS.

MAINTENANCE

14. ALL DEDICATED SEDIMENT STORAGE ZONES WITHIN TRAPS SHALL BE CLEANED WHEN A MAXIMUM OF 60% FULL OF SOLID MATERIALS AND DISPOSED OF IN A MANNER THAT PREVENTS FURTHER POLLUTION OF THE SITE.
15. TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES WILL BE RETAINED UNTIL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS STABILISED.
16. THE CONTRACTOR SHALL INSPECT THE SITE AT LEAST WEEKLY AND AFTER ANY STORM EVENT AND WILL:
 - ENSURE THAT DRAINS OPERATE PROPERLY AND TO EFFECT ANY NECESSARY REPAIRS;
 - REMOVE SPILLED SAND OR OTHER MATERIALS FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS (ESPECIALLY DRAINS AND TEMPORARY FLOW PATHS)
 - REMOVE TRAPPED SEDIMENT WHENEVER LESS THAN DESIGN CAPACITY REMAINS WITHIN THE STRUCTURE;
 - CONSTRUCT ADDITIONAL EROSION AND/OR SEDIMENT CONTROL WORKS AS REQUIRED;
 - MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN A FULLY FUNCTIONING CONDITION UNTIL ALL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS STABILISED; AND
 - REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL STRUCTURES AS THE LAST ACTIVITY IN THE CONSTRUCTION PROGRAM.



PLAN
4

SEDIMENT & EROSION CONTROL PLAN
1:500

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APPROVED	LES	DATE	12/09/2025



17-21 SHIRLEY ROAD, ROSEVILLE			
SEDIMENT & EROSION CONTROL PLAN			
Size	A3	Status	FOR DA SUBMISSION
Drwg No.	P171474-DR-SD-001	Rev.	2