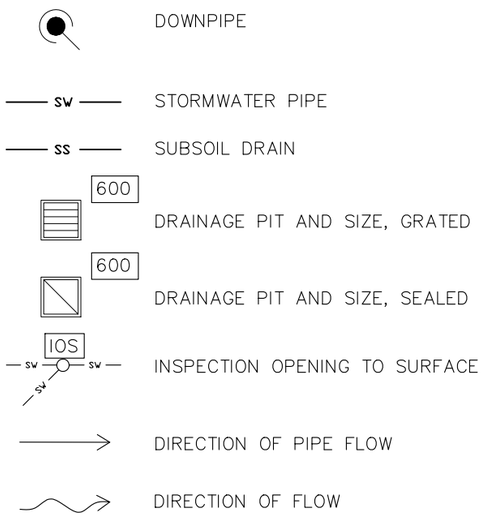
93–107 CECIL & 9–10 ROGER AVE, CASTLE HILL

STORMWATER MANAGEMENT PLAN

DRAWING INDEX:

DR–000 LEGEND
DR–001 PIPE LAYOUT – BASEMENT 1
DR–002 PIPE LAYOUT – LOWER GROUND
DR–003 DETAILS – SHEET 1
DR–004 DETAILS – SHEET 2
DR–010 EROSION AND SEDIMENT CONTROL PLAN
DR–011 EROSION AND SEDIMENT CONTROL PLAN – DETAILS
DR–012 STORMWATER EXTENSION PLAN
DR–013 OSD CATCHMENT PLAN
DR–014 MUSIC CATCHMENT PLAN
DR–100 STORMWATER EXTENSION – LONGITUDINAL SECTION

LEGEND:



NOTES:

1. ALL DIMENSIONS TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.
2. SITE LAYOUT BASED ON ARCHITECTURAL PLANS BY KAICHI LEUNG ARCHITECTS (DECEMBER 2024) AND SURVEY PLANS BY SDG LAND DEVELOPMENT SOLUTIONS (FEBRUARY 2017).
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. ALL UNDERGROUND PIPE WORK TO BE DN150 uPVC UNLESS OTHERWISE NOTED.
7. SUBSOIL DRAINAGE TO BE ø100mm AGI PIPE WRAPPED IN GEOTEXTILE FABRIC UNLESS OTHERWISE NOTED
8. STORMWATER PIPES TO BE GRADED AT A MINIMUM 1% UNLESS NOTED OTHERWISE.
9. ALL PIPE AND CONDUITS TO BE MARKED IN ACCORDANCE WITH AS1345 – 1995.
10. TRENCHES AND SERVICE SEPARATIONS IN ACCORDANCE WITH AS/NZS 5601, AS/NZS 3500, AND AS/CA S009.

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Scale: NA

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LEGEND

Size	Status	Drg No.	Rev.
A3	FOR SSD APPLICATION	DR-000	0

PLAN 1

PIPE LAYOUT – BASEMENT 1

1:750

REVISIONS

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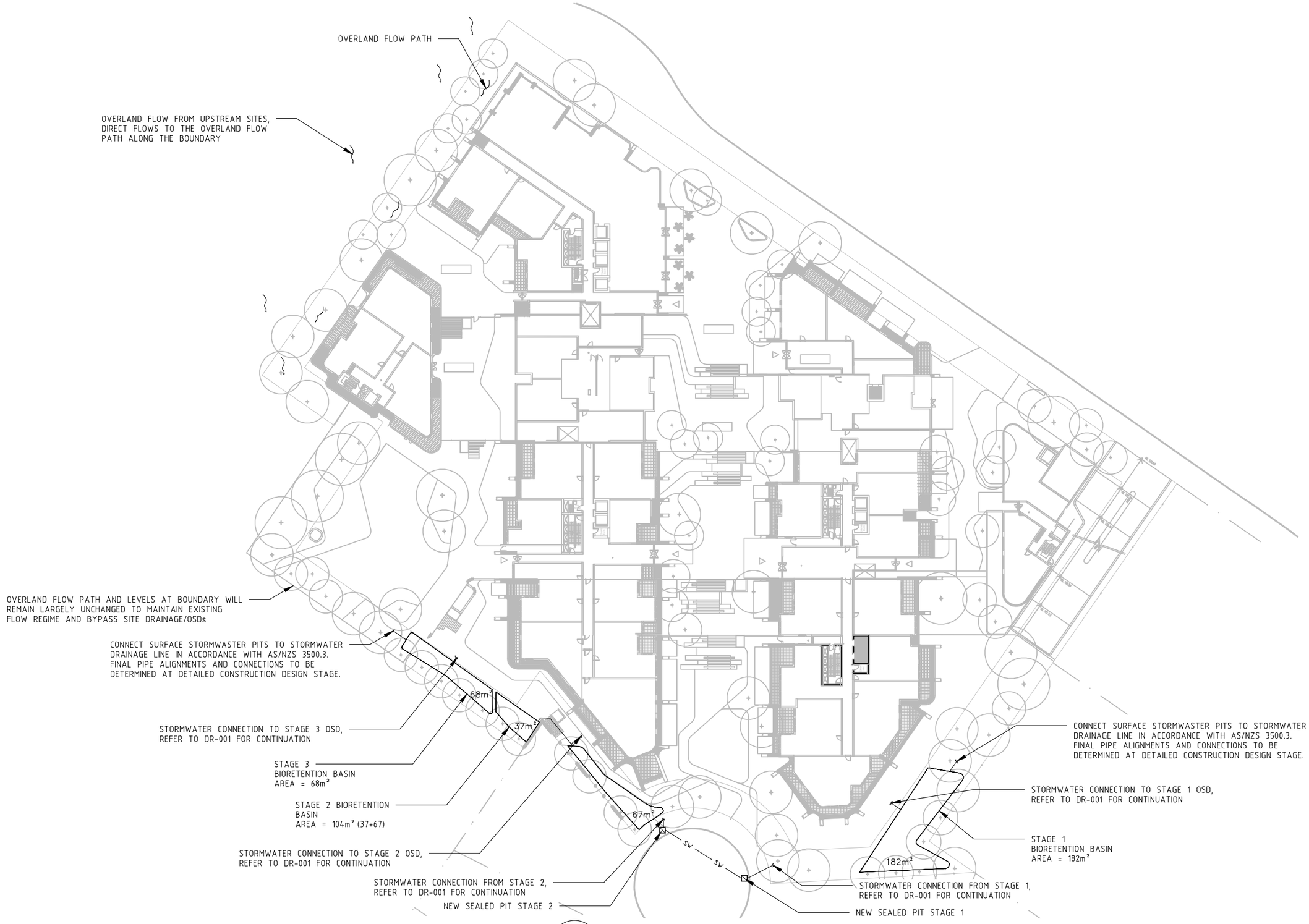
PIPE LAYOUT - BASEMENT 1

Size	Status	Drg No.	Rev.
A3	FOR SSD APPLICATION	DR-001	0



PLAN 2

PIPE LAYOUT – LOWER GROUND

1:750

This drawing is confidential and shall only be used for the purposes of this project.

Scale

AS NOTED

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PIPE LAYOUT - LOWER GROUND

Size	Status	Drg No.	Rev.
A3	FOR SSD APPLICATION	DR-002	0

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TABLE 1 – BIO–RETENTION DESIGN LEVEL					
STAGE 1		STAGE 2		STAGE 3	
A	116.21	A	115.72	A	118.23
B	117.01	B	116.52	B	119.03
C	116.51	C	116.02	C	118.53

NOTES:

FILTER MEDIA

1. FILTER MEDIA TO BE SANDY LOAM, COMPRISED OF THE FOLLOWING MATERIALS AND PARTICLE SIZE DISTRIBUTION:

CLAY	2–4%	(<0.002 mm)
SILT	4–8%	(0.002–0.05 mm)
VERY FINE SAND	5–10%	(0.05–0.15 mm)
FINE SAND	10–25%	(0.15–0.25 mm)
MEDIUM TO COARSE SAND	60–70%	(0.25–1 mm)
COARSE SAND	7–10%	(1–2 mm)
FINE GRAVEL	<3%	(2–3.4 mm)

2. FILTER MEDIA TO HAVE THE FOLLOWING PROPERTIES:

SATURATED HYDRAULIC CONDUCTIVITY:	100 mm/hr
TOTAL NITROGEN CONTENT:	< 800 mg/kg
ORTHOPHOSPHATE:	< 50 mg/kg

3. FILTER MEDIA MUST BE CAPABLE OF SUPPORTING HEALTHY VEGETATION.

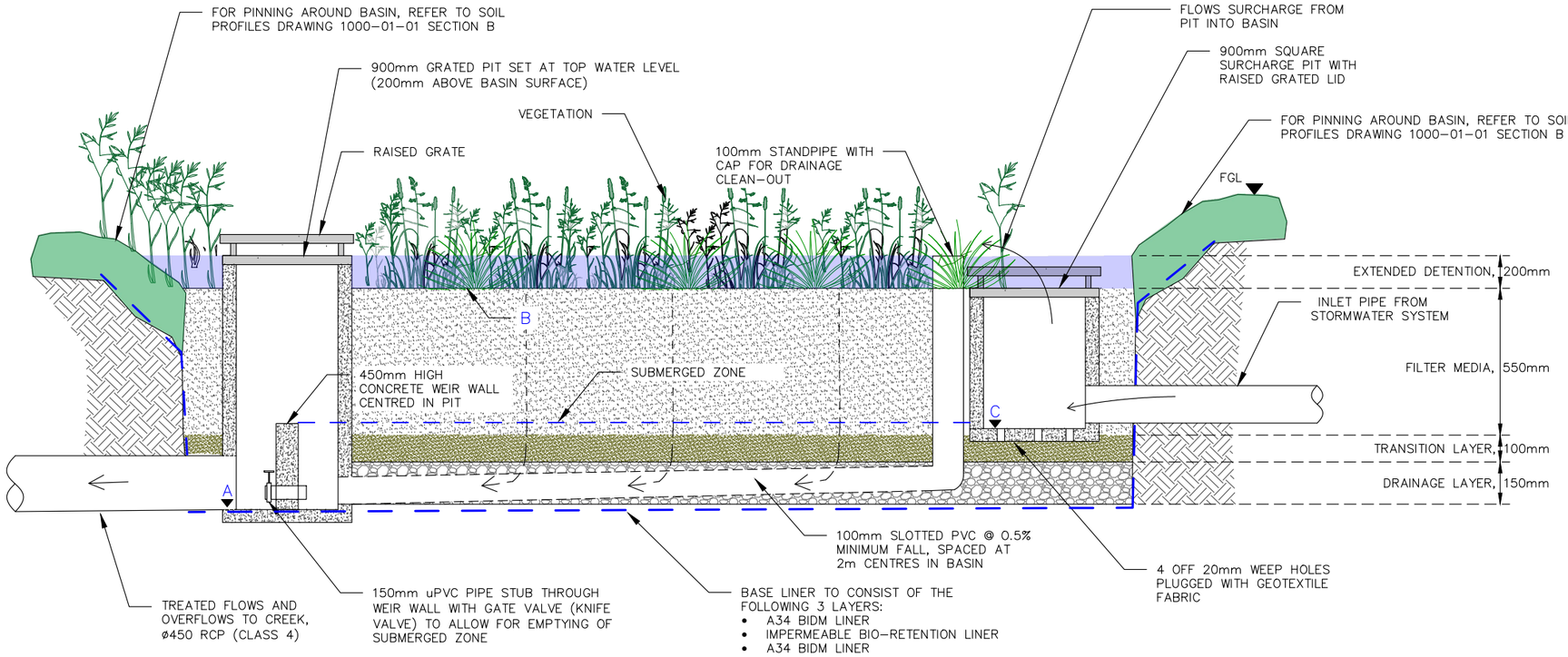
TRANSITION LAYER

4. TRANSITION LAYER MATERIAL SHALL BE COARSE SAND MATERIAL "UNIMIN 16/30 FG SAND" OR SIMILAR.

PASSING	1.4 mm	100%
	1.0 mm	80%
	0.7 mm	44%
	0.5 mm	8.4%

DRAINAGE LAYER

5. DRAINAGE LAYER SHALL BE FINE AGGREGATE GRAVEL, 2–5mm SCREENINGS



DETAIL 1

TYPICAL BIO–RETENTION DETAIL

1:150

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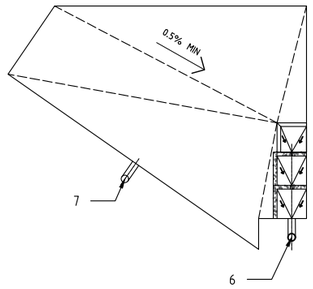
DETAILS - SHEET 1

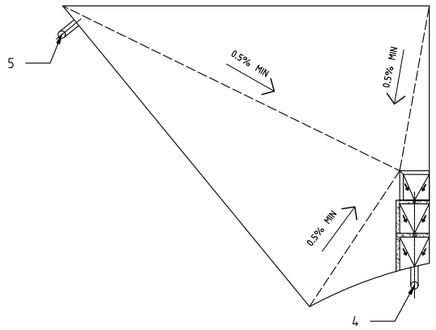
Size	Status	Drg No.	Rev.
A3	FOR SSD APPLICATION	DR-003	0

157.90m³ OSD STORAGE
STAGE 3
IL 114.40m
TOW 116.67m
WEIR HEIGHT – 115.54m
LENGTH OF WEIR – 2.4m
ORIFICE 1 DIAMETER – 69mm
ORIFICE 2 DIAMETER – 129mm
NO. OF CARTRIDGES – 1



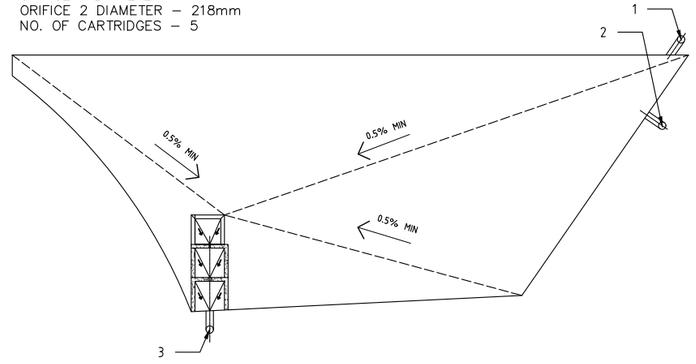
STAGE 3

243.50m³ OSD STORAGE
STAGE 2
IL 114.40m
TOW 116.567m
WEIR HEIGHT – 115.916m
LENGTH OF WEIR – 2.4m
ORIFICE 1 DIAMETER – 87mm
ORIFICE 2 DIAMETER – 162mm
NO. OF CARTRIDGES – 3



STAGE 2

426.80m³ OSD STORAGE
STAGE 1
IL 114.40m
TOW 116.56m
WEIR HEIGHT – 115.84m
LENGTH OF WEIR – 2.4m
ORIFICE 1 DIAMETER – 117mm
ORIFICE 2 DIAMETER – 218mm
NO. OF CARTRIDGES – 5



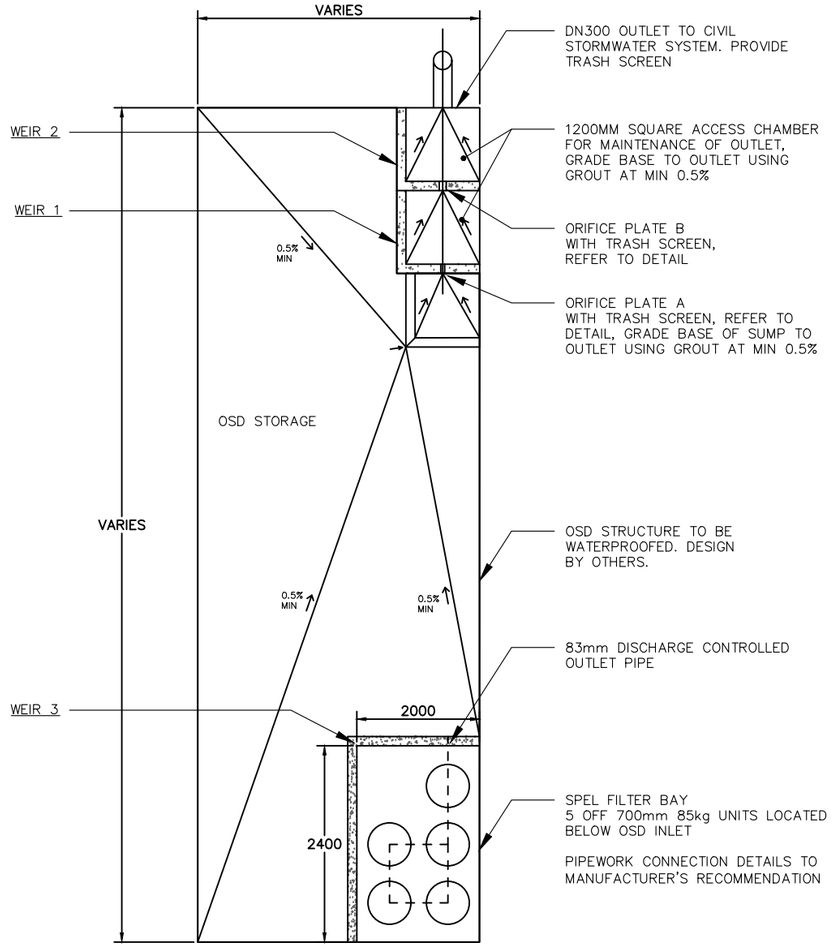
STAGE 1

PLAN 3

OSD ARRANGEMENT FOR ALL STAGES

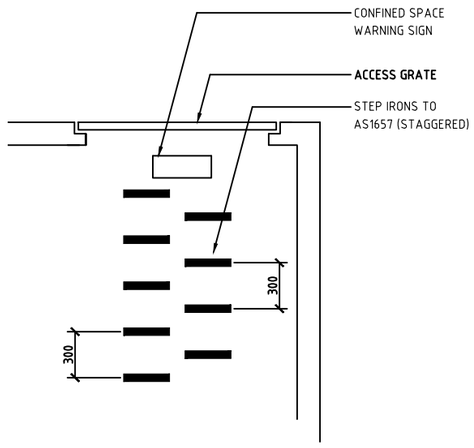
1:500

NOTES:
1. RISING MAIN FROM BASEMENT PUMP-OUT SYSTEM.
2. STORMWATER CONNECTION FROM STAGE 1 BIORETENTION.
3. STORMWATER CONNECTION FROM STAGE 1 TO SEALED PIT.
4. STORMWATER CONNECTION FROM STAGE 2 TO SEALED PIT.
5. STORMWATER CONNECTION FROM STAGE 2 BIORETENTION.
6. STORMWATER CONNECTION FROM STAGE 3 TO SEALED PIT.
7. STORMWATER CONNECTION FROM STAGE 3 BIORETENTION.



TYPICAL OSD PLAN VIEW

NOT TO SCALE



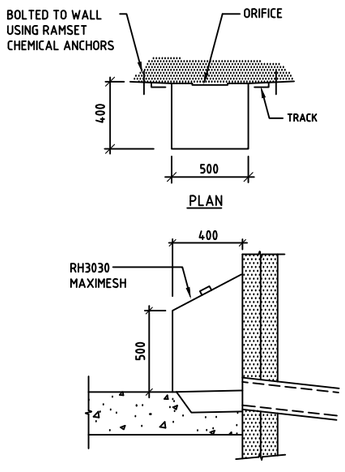
DETENTION TANK ACCESS GRATE AND STEP IRON DETAIL

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

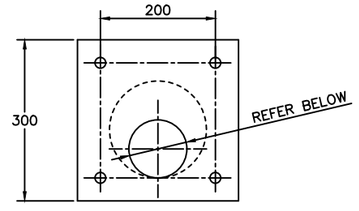
MATERIAL: POLYPROPYLENE

CONFINED SPACE WARNING SIGN



TRASH SCREEN DETAIL

NOT TO SCALE



ORIFICE PLATE

NOT TO SCALE

3mm THICK STAINLESS STEEL SECURELY FIXED TO OSD WALL WITH 4 OFF 12mm DYNA BOLTS

ORIFICE PLATE 1: REFER TO PLAN 3
ORIFICE PLATE 2: REFER TO PLAN 3

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DETAILS - SHEET 2

Size	Status	Drg No.	Rev.
A3	FOR SSD APPLICATION	DR-004	0

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'.

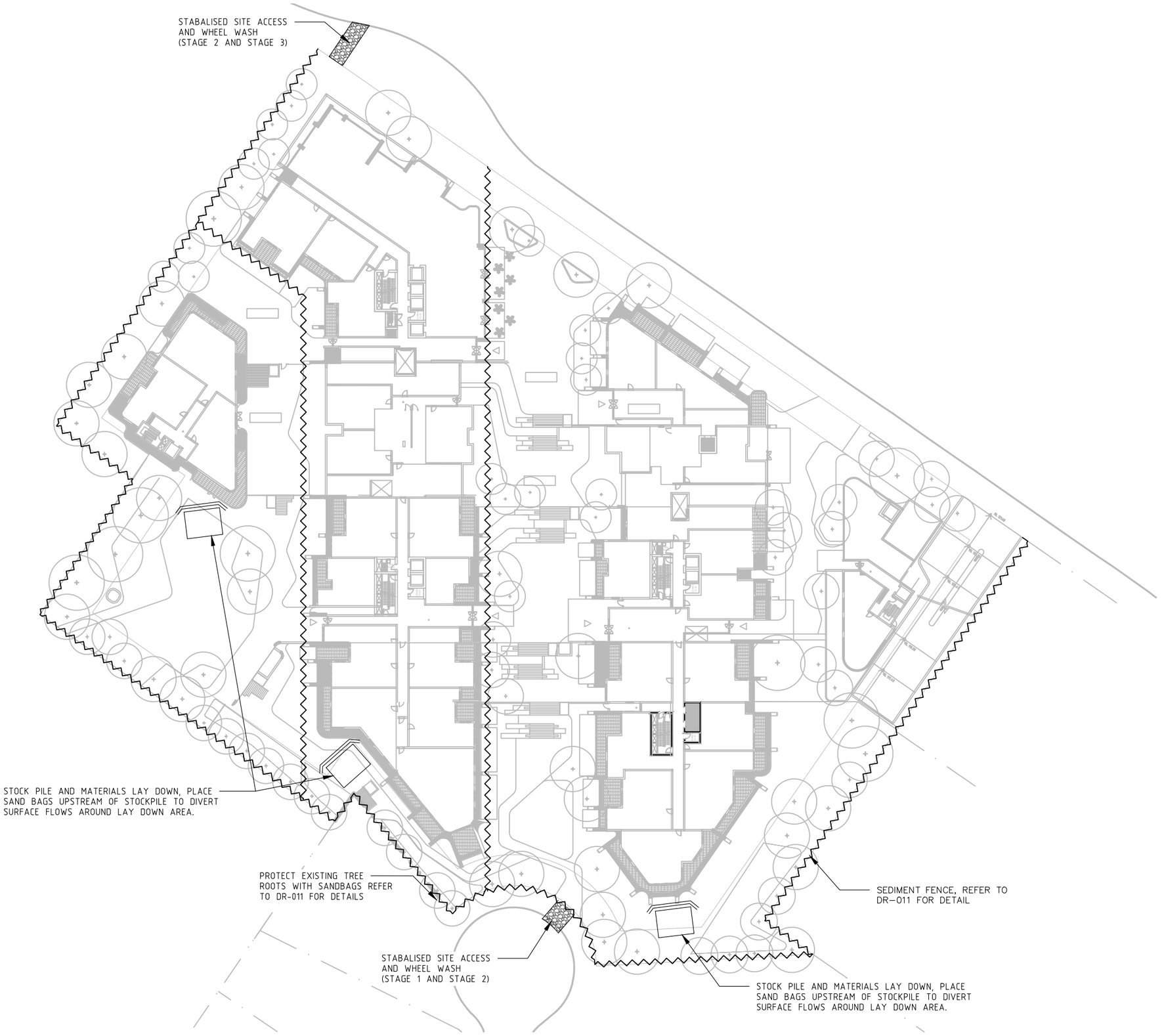
CONSTRUCTION

6. THE SITE WILL REMAIN PREDOMINANTLY CONCRETE (EXISTING FOUNDATIONS TO BE LEFT IN–SITU). THEREFORE EROSION AND SEDIMENT CONTROLS WILL NEED TO BE ADJUSTED AS EXCAVATION OCCURS.
7. USE SANDBAGS, HAY BALES AND/OR GRAVEL FILLED GEOTEXTILE SOCKS TO FILTER AND CONVEY STORMWATER RUNOFF WITHIN THE SITE.
8. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS EARLY AS POSSIBLE DURING DEVELOPMENT.
9. 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.
10. 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.
11. DIVERT SURFACE WATER AWAY FROM EXCAVATION AREAS WITH SANDBAGS OR EQUIVALENT.
12. 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.
13. 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.
14. ENSURE CHEMICAL AND FUELS ARE STORED WITHIN BUNDED AREAS AND ELEVATED ABOVE POTENTIAL FLOW PATHS.

MAINTENANCE

15. 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.
16. TEMPORARY SEDIMENT AND EROSION CONTROL DEVICES WILL BE RETAINED UNTIL EARTHWORK ACTIVITIES ARE COMPLETED AND THE SITE IS STABILISED.
17. 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.



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Scale

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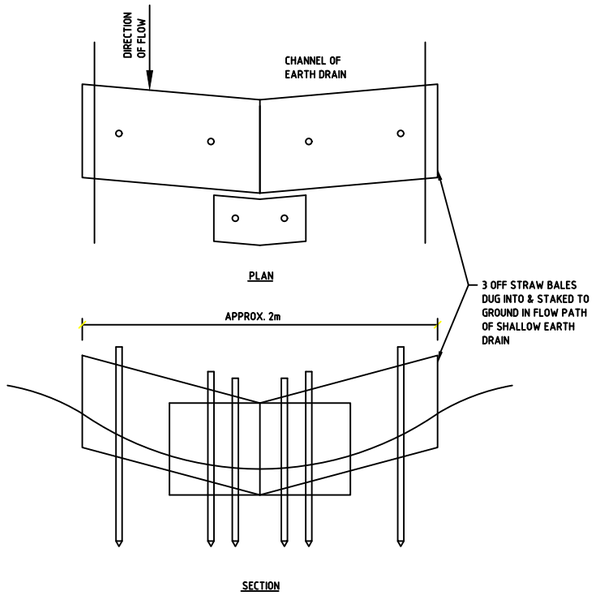
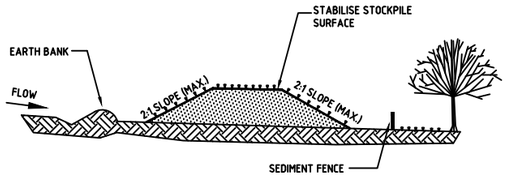
EROSION AND SEDIMENT CONTROL PLAN

Size	Status	Drg No.	Rev.
A3	FOR SSD APPLICATION	DR-010	0



TYPICAL DIVERSION DRAIN
NOT TO SCALE



CONSTRUCTION NOTES -

1. LOCATE STOCKPILE AT LEAST 5 METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOES, ROADS AND HAZARD AREAS.

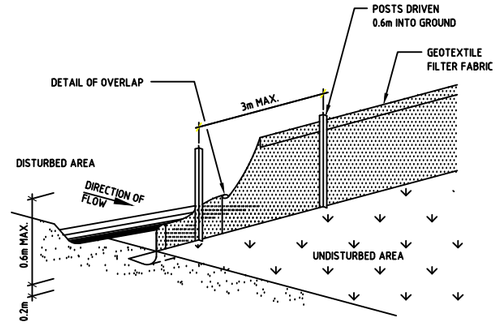
2. CONSTRUCT ON THE CONTOUR AS A LOW , FLAT, ELONGATED MOUND.

3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.

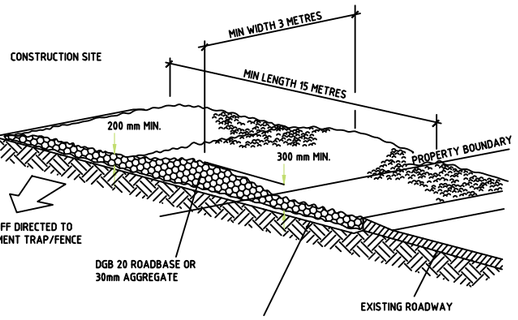
4. REHABILITATE IN ACCORDANCE WITH SWMP/ESCP.

CONSTRUCT EARTH BANK ON UPSLOPE SIDE TO DIVERT RUN OFF AROUND THE STOCKPILE AND A SEDIMENT FENCE 1 TO 2 METRES DOWNSLOPE OF STOCKPILE.

STOCKPILES
NOT TO SCALE



SEDIMENT FENCE
NOT TO SCALE



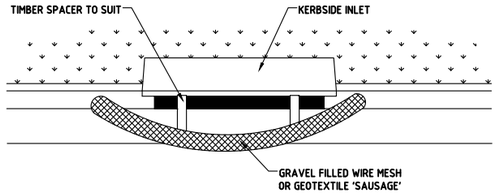
GEOTEXTILE FABRIC DESIGNED TO PREVENT INTERMIXING OF SUBGRADE AND BASE MATERIALS AND TO MAINTAIN GOOD PROPERTIES OF THE SUB-BASE LAYERS.

GEOTEXTILE MAY BE A WOVEN OR NEEDLE PUNCHED PRODUCT WITH A MINIMUM CBR BURST STRENGTH (AS3706.4-90) 2500N

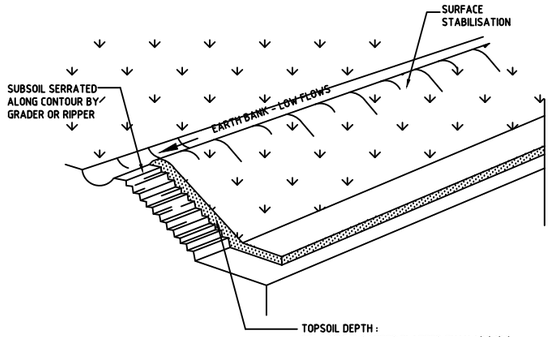
CONSTRUCTION NOTES

1. STRIP TOPSOIL AND LEVEL SITE
2. COMPACT SUBGRADE
3. COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE
4. CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING ROADBASE OR 30mm AGGREGATE. MINIMUM LENGTH 15 METRES OR TO BUILDING ALIGNMENT. MINIMUM WIDTH 3 METRES.
5. CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP.

STABILISED SITE ACCESS
NOT TO SCALE



FILTER ROLL (TYPICAL)
NOT TO SCALE



CONSTRUCTION NOTES -

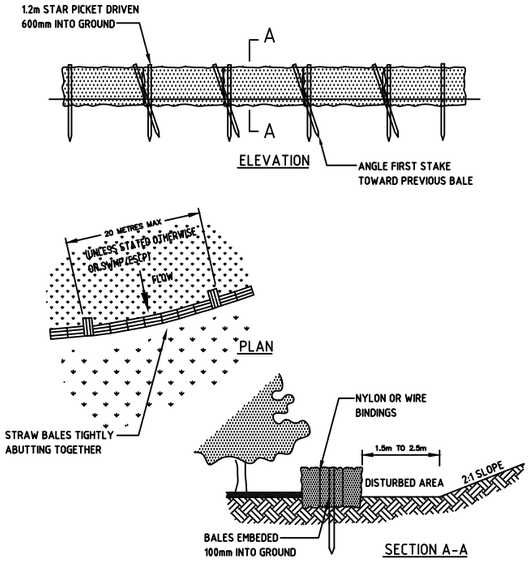
1. SCARIFY SURFACE ALONG THE LINE OF THE CONTOUR TO DEPTH OF 50mm TO 100mm TO BREAK UP ANY HARDSETTING SURFACES AND PROVIDE A GOOD BOND BETWEEN THE RESPREAD MATERIAL AND SUBSOIL

2. ADD SOIL AMELIORANTS AS REQUIRED BY SWMP/ESCP.

3. RIP TO A DEPTH OF 300mm WHERE COMPACTED LAYER OCCURS.

4 REPLACE TOPSOIL

REPLACING TOPSOIL
NOT TO SCALE



Construction Notes

1. CONSTRUCT STRAW BALE FILTER AS CLOSE AS POSSIBLE TO PARALLEL TO THE CONTOURS OF THE SITE OR AT THE TOE OF A SLOPE
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS TO BE PLACED PARALLEL TO GROUND.
3. MAXIMUM HEIGHT OF FILTER IS ONE BALE.
4. ON SOFT MATERIALS, EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS. ANGLE THE FIRST STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE STAKES 600mm INTO THE GROUND AND FLUSH WITH THE TOP OF THE BALES.
5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER THE BALES SHOULD BE LOCATED 1.5 TO 2 METRES DOWNSLOPE FROM THE TOE OF THE BATTER.

STRAW BALE FILTER
NOT TO SCALE

REVISIONS

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0	NTM	19/12/2024	FOR SSD APPLICATION	TK

Scale

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APPROVED	TK	DATE	19/12/2024

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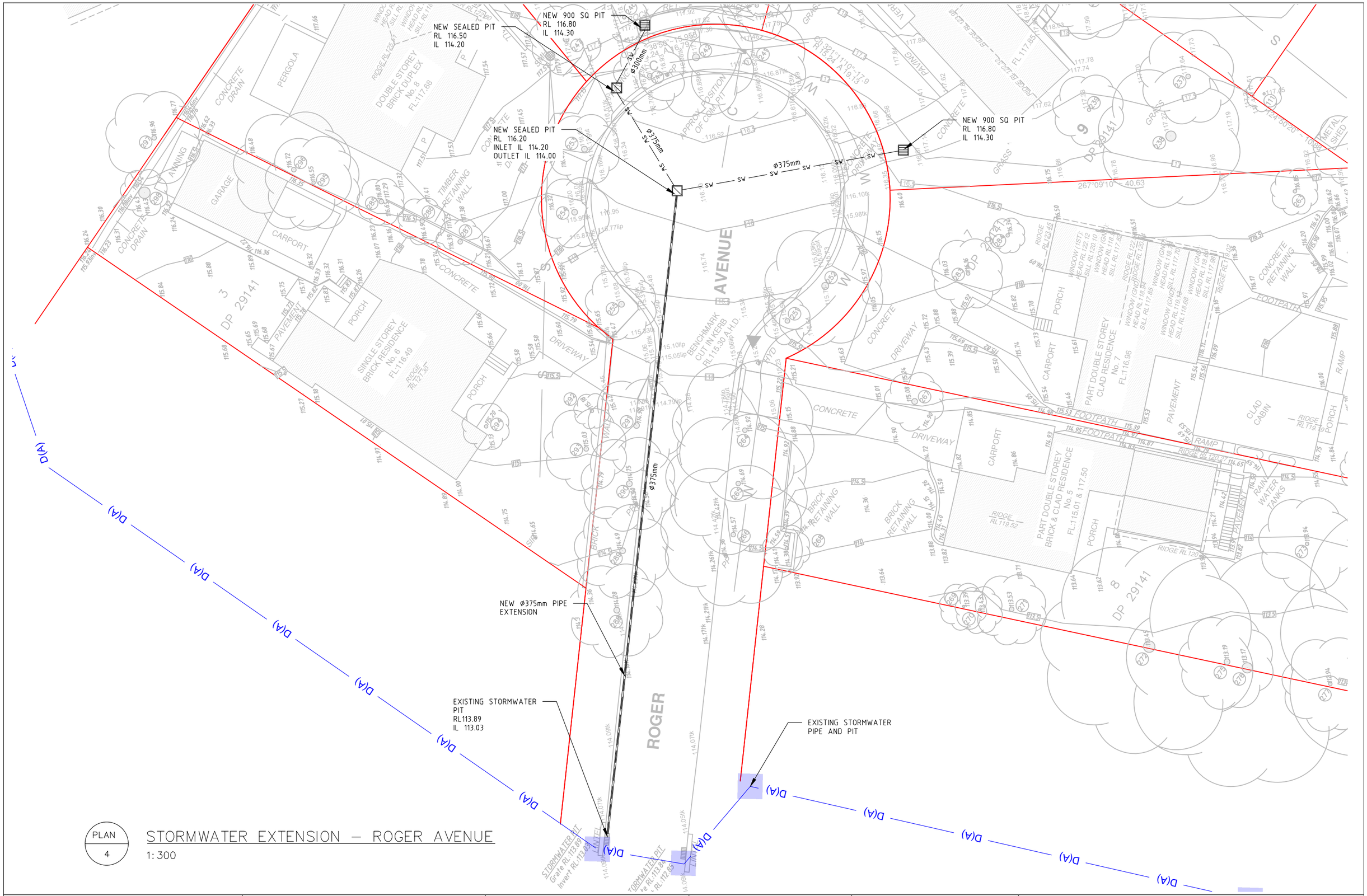
93-107 CECIL AVE & 9-10 ROGER AVE, CASTLE HILL

EROSION AND SEDIMENT CONTROL PLAN - DETAILS

Size	Status	Drg No.	Rev.
A3	FOR SSD APPLICATION	DR-011	0



PLAN 4

STORMWATER EXTENSION – ROGER AVENUE

1:300

REVISIONS

No.	BY	DATE	DESCRIPTION	APPD
0	NTM	19/12/2024	FOR SSD APPLICATION	TK

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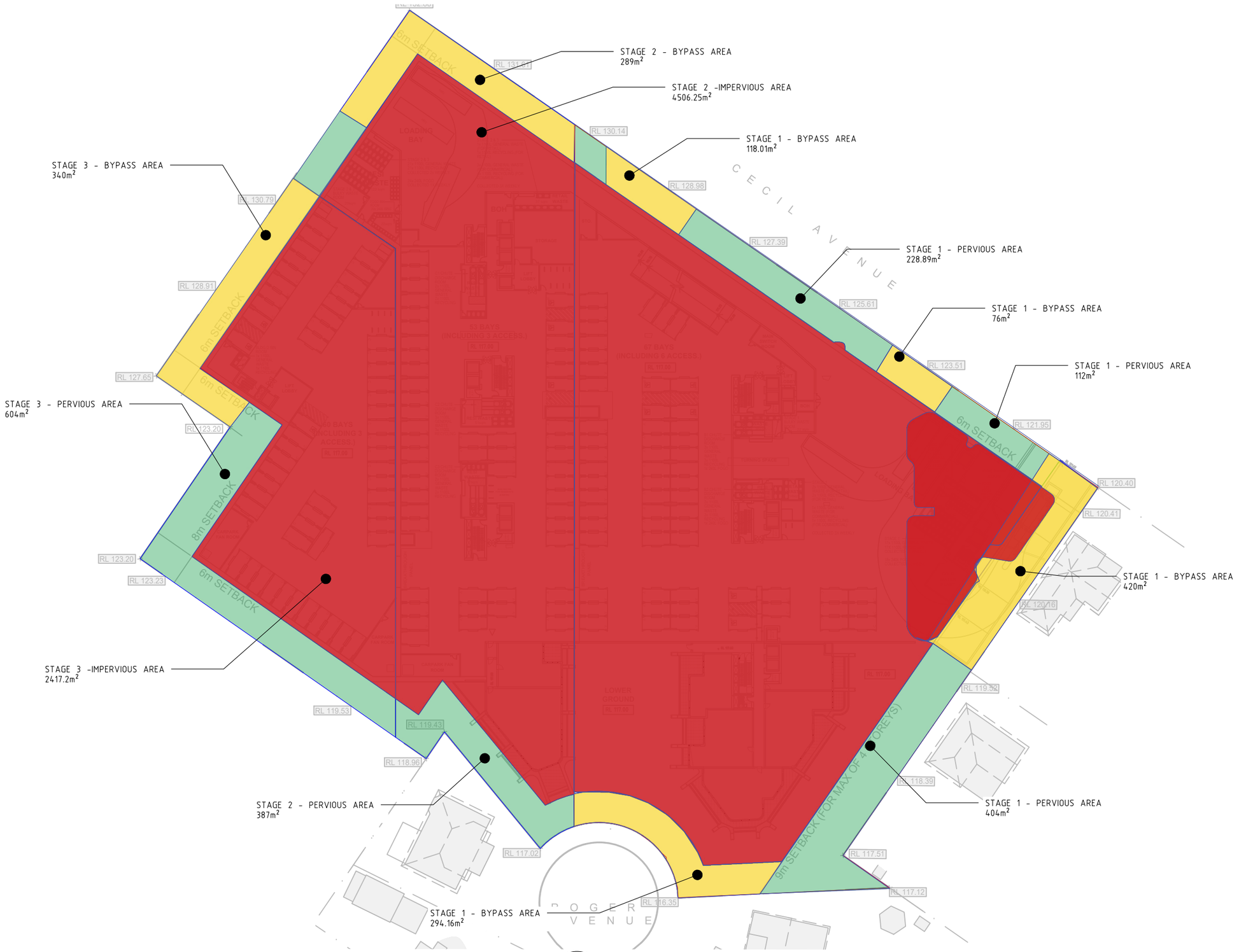
STORMWATER EXTENSION - ROGER AVENUE

Size	Status	Drg No.	Rev.
A3	FOR SSD APPLICATION	DR-012	0



PLAN 5

CATCHMENT PLAN – OSD

1: 750

This drawing is confidential and shall only be used for the purposes of this project.

REVISIONS					
No.	BY	DATE	DESCRIPTION	APPD
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Scale

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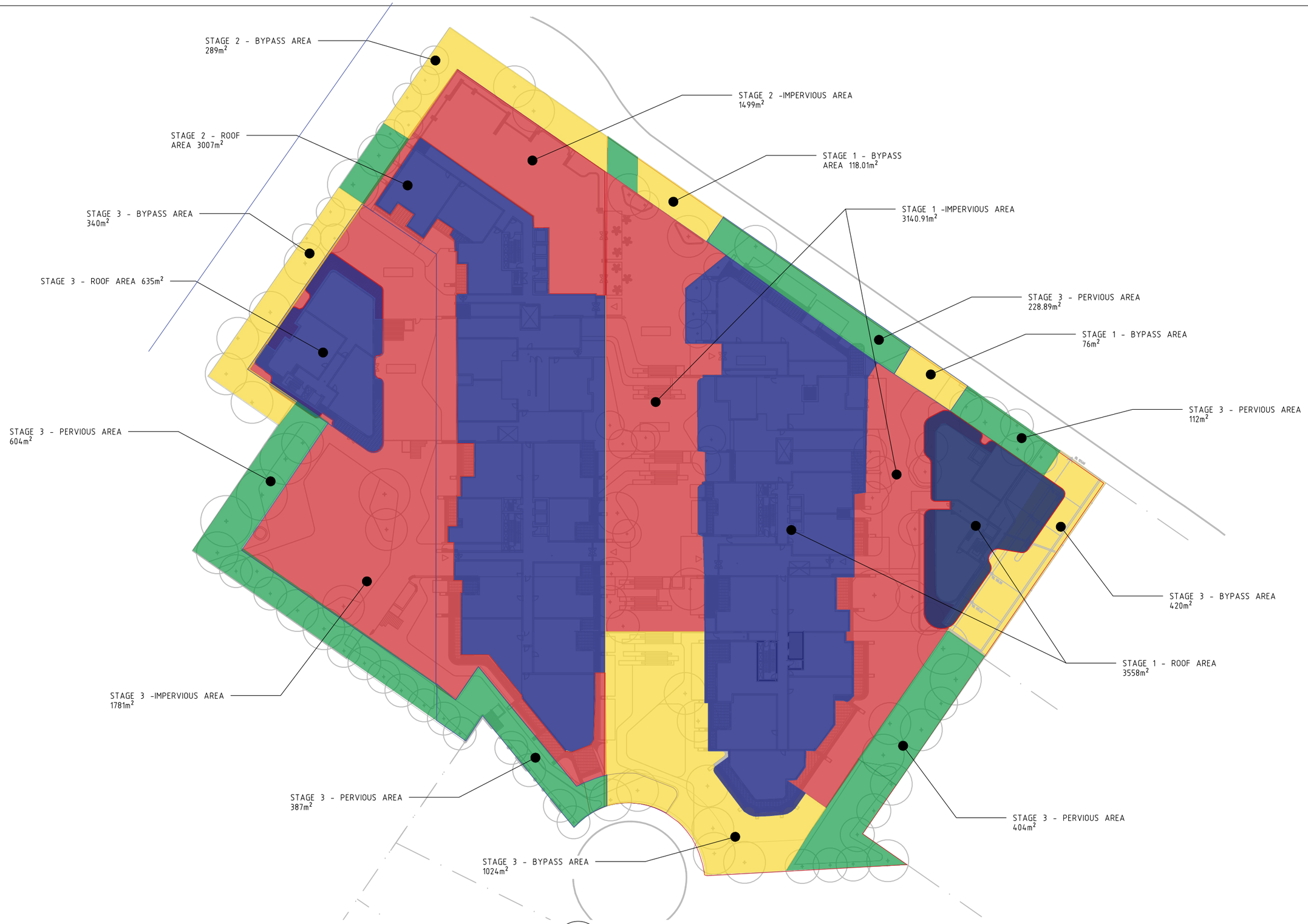
93-107 CECIL AVE & 9-10 ROGER AVE, CASTLE HILL

CATCHMENT PLAN - OSD

Size	Status	Drg No.	Rev.
A3	FOR COORDINATION	DR-013	0



PLAN 6

CATCHMENT PLAN – MUSIC MODEL

1:750

REVISIONS

No.	BY	DATE	DESCRIPTION	APPD
0	DD	19/12/2024	FOR SDD APPLICATION	TK

Scale

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APPROVED	TK	DATE	19/12/2024

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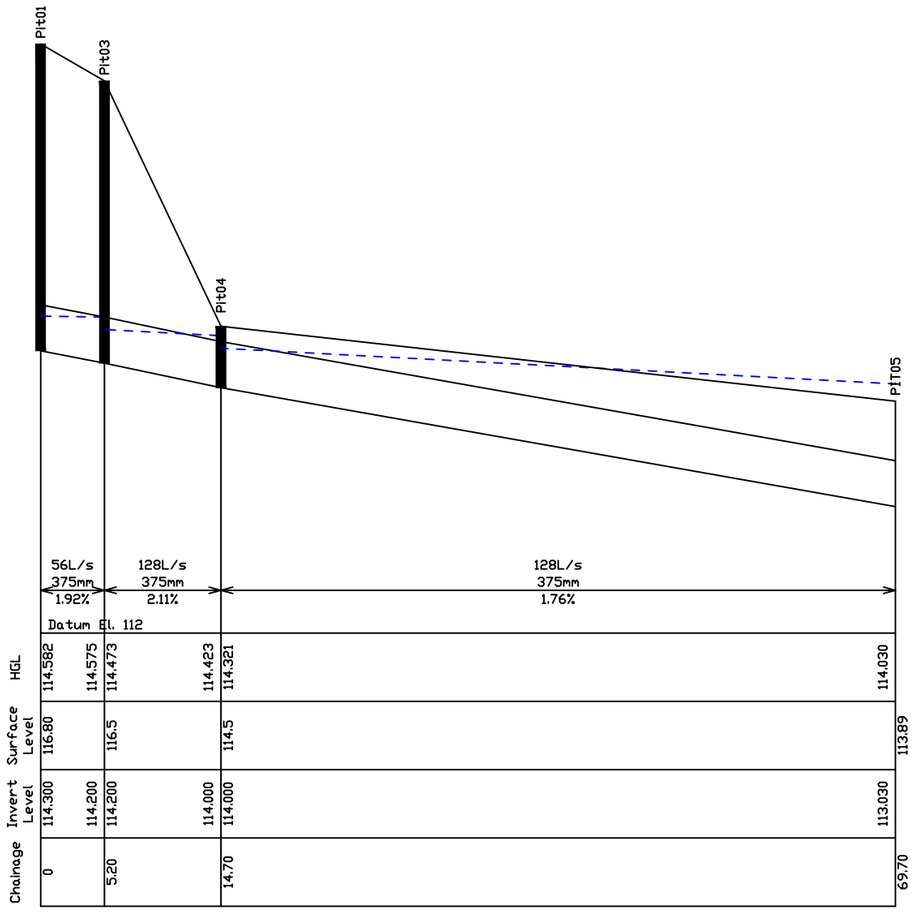
93-107 CECIL AVE & 9-10 ROGER AVE, CASTLE HILL

CATCHMENT PLAN - MUSIC MODEL

Size	Status	Drg No.	Rev.
A3	FOR COORDINATION	DR-014	0



Chainage	0	5.20	14.70	69.70
Invert Level	114.300	114.200	114.200	114.000	114.000	113.030
Surface Level	116.80	116.5	114.5	113.89
HGL	114.582	114.575	114.473	114.423	114.321	114.030

SECTION 1

STORMWATER EXTENSION – LONG SECTION

1:50

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REVISIONS

No.	BY	DATE	DESCRIPTION	APPD
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Scale

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93-107 CECIL AVE & 9-10 ROGER AVE, CASTLE HILL

STORMWATER EXTENSION - LONG SECTION

Size	Status	Drg No.	Rev.
A3	FOR SSD APPLICATION	DR-100	0