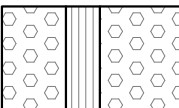
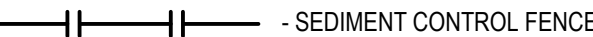
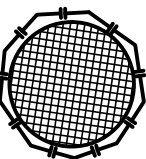
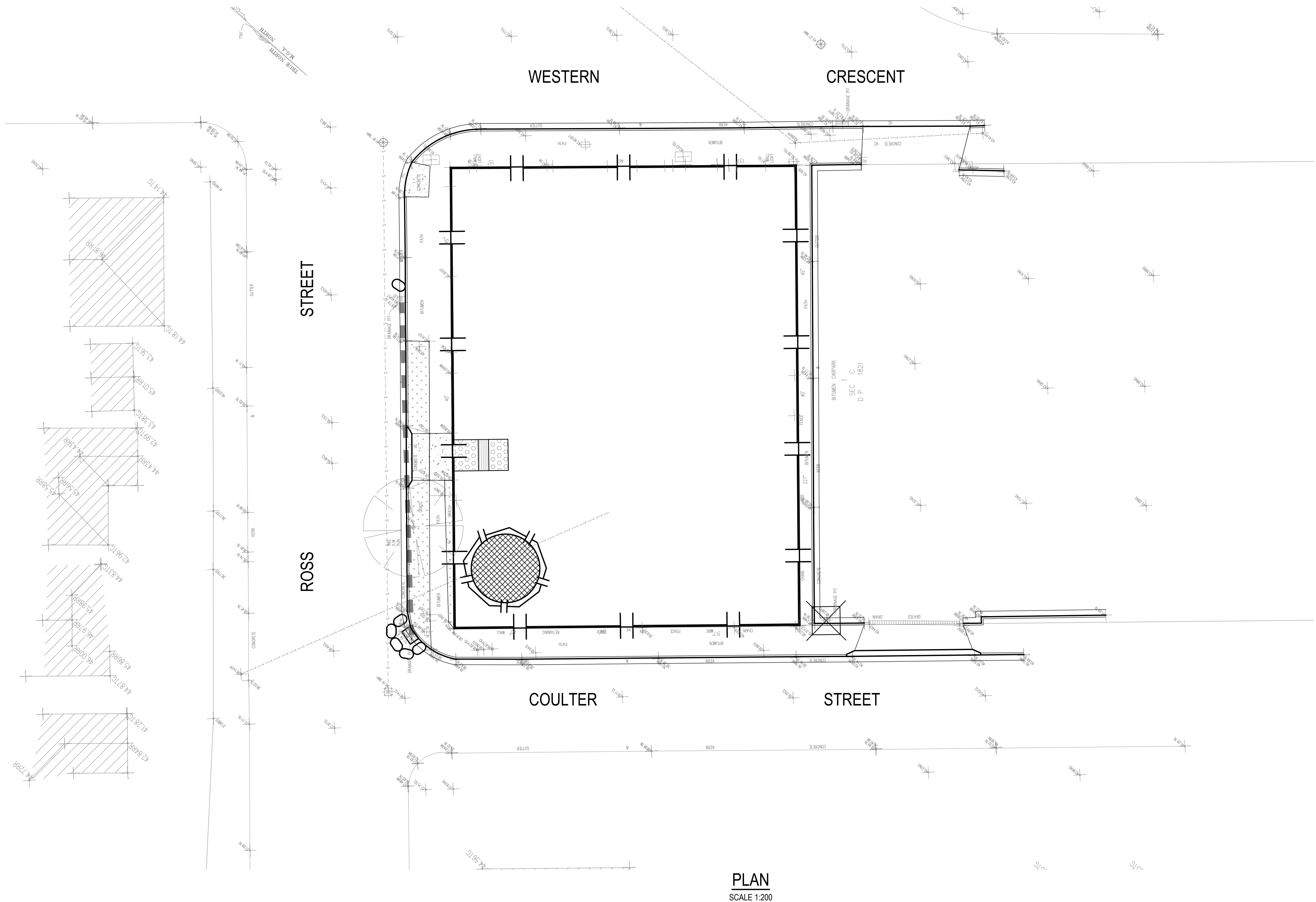


EROSION AND SEDIMENT NOTES

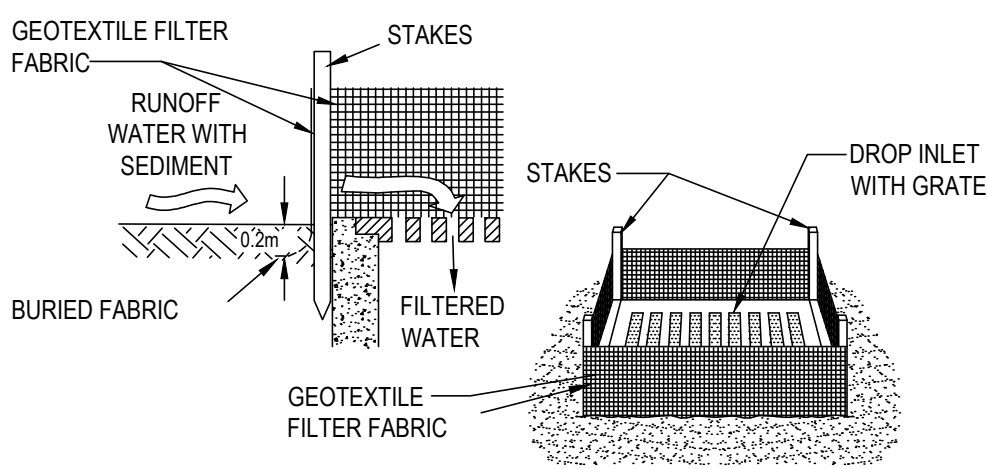
- B1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS AS SHOWN
- B2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF AND DURING CONSTRUCTION. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT COUNCIL'S APPROVAL. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARDS OUTLINED IN NSW DEPARTMENT OF HOUSING'S 'MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTIONS'.
- B3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE LINES. THIS TOPSOIL IS TO BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY, (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS, BASINS AND CATCHDRAINS). TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT. IF THEY ARE TO REMAIN FOR LONGER THAN ONE MONTH STOCKPILES SHALL BE PROTECTED FROM EROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SILT LADEN RUNOFF.
- B4. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM DEVICES SUCH THAT NO MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED OR AS DIRECTED BY THE SUPERINTENDENT OR COUNCIL.
- B5. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS.
- B6. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT NOT SATURATING) DISTURBED AREA.
- B7. PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENTS ARE REVEGETATED OR PAVED.
- B8. REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING.
- B9. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL :
A) DOWNPIPES CONNECTED
B) PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER
- B10. SILT FENCE MAINTENANCE INSPECTION TO BE CARRIED OUT EVERY 3 MONTHS AND AFTER EACH RAINFALL EVENT.
- B11. EROSION & SEDIMENT CONTROL SIGNAGE AVAILABLE FROM COUNCIL MUST BE ATTACHED TO THE MOST PROMINENT AVAILABLE STRUCTURE AND BE VISIBLE AT ALL TIMES WHEN ENTERING THE SITE FOR THE DURATION OF CONSTRUCTION.

LEGEND

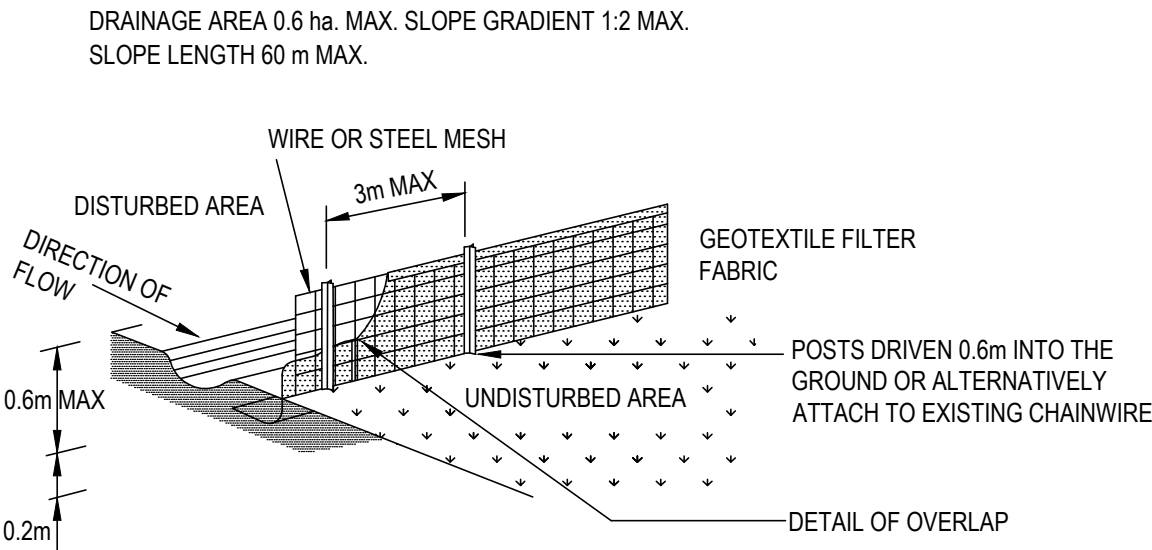
-  -STORMWATER SEDIMENT TRAPS AT ALL PROPOSED PIT INLETS
-  -TEMPORARY CONSTRUCTION VEHICLE EXIT
-  - SEDIMENT CONTROL FENCE
-  -STOCKPILE AREA
-  -SANDBAG KERB INLET SEDIMENT TRAP



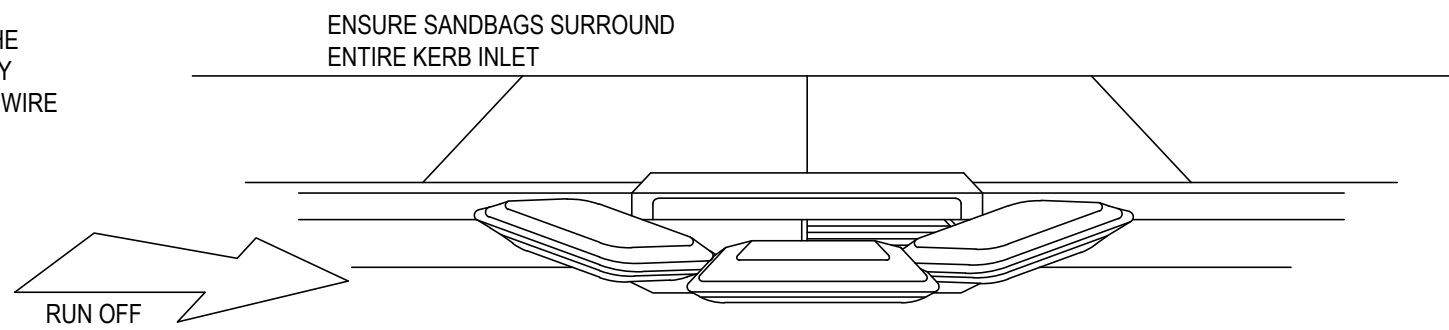
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SCALE 1:200



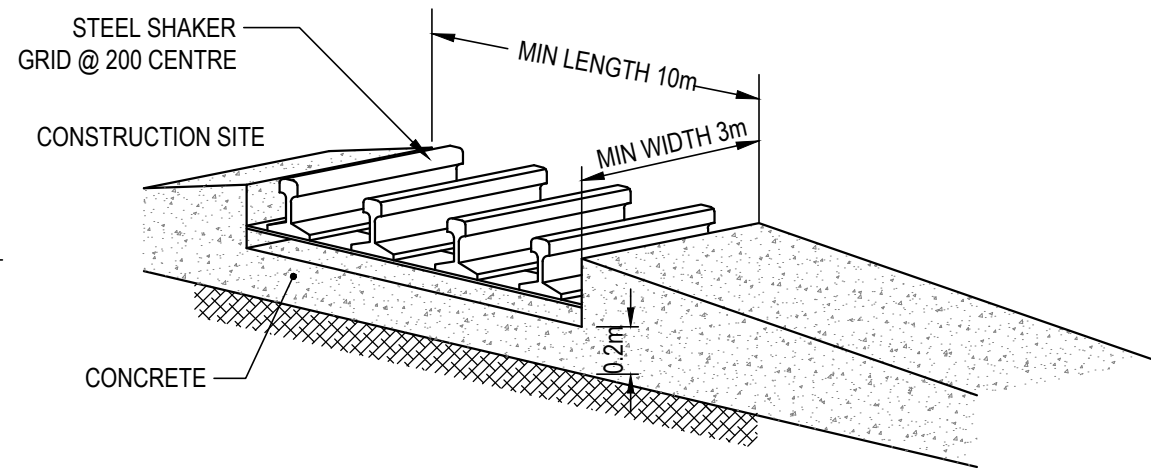
GEOTEXTILE FILTER FABRIC DROP INLET
SEDIMENT TRAP
N.T.S.



SEDIMENT CONTROL FENCE
N.T.S.

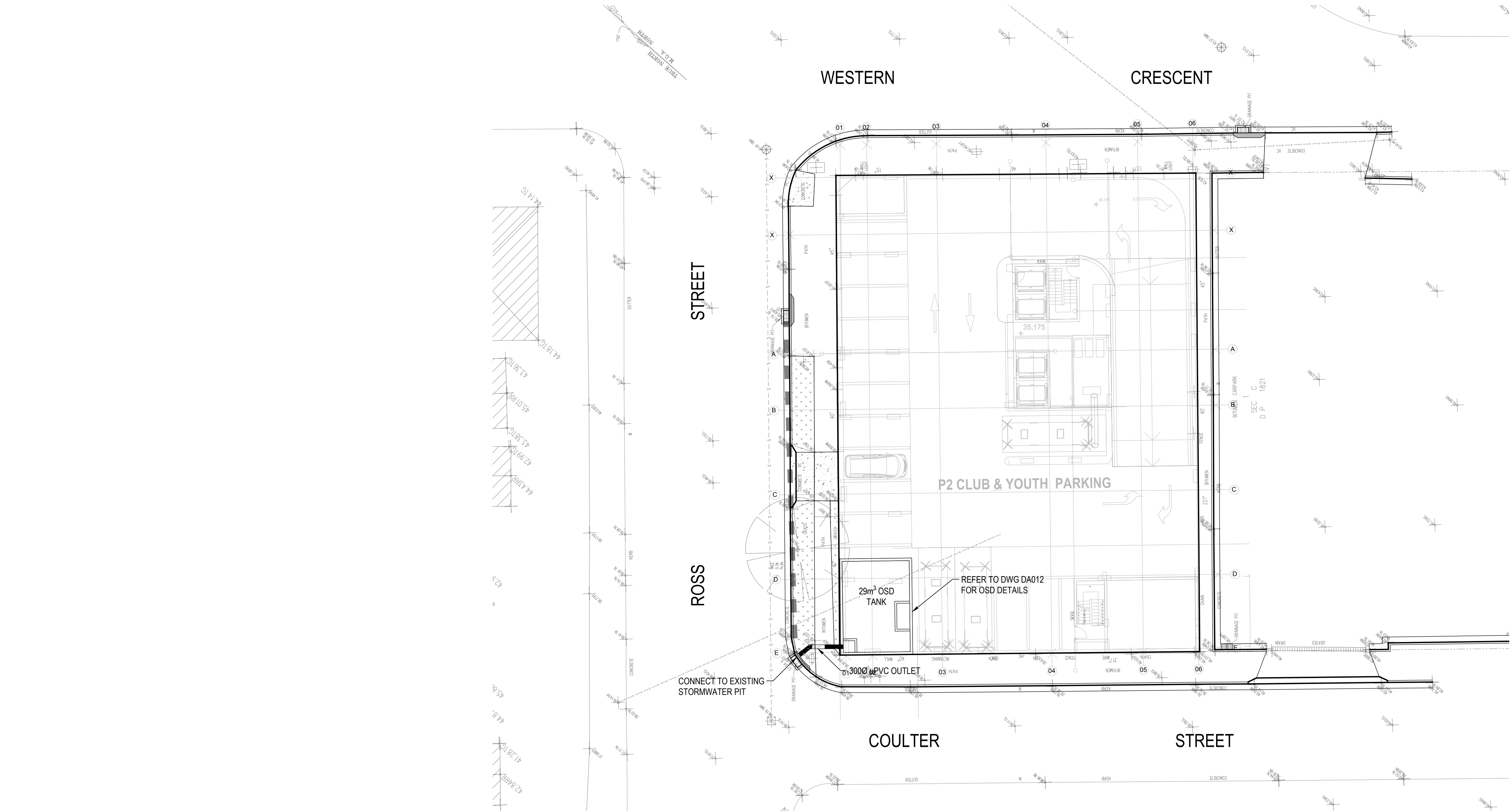


SANDBAG KERB INLET SEDIMENT TRAP
N.T.S.



TEMPORARY CONSTRUCTION
VEHICLE EXIT
N.T.S.

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				 SCALE 1:200				PHILON LEVEL 17, 20 BOND STREET SYDNEY, NSW 2000		GLADESVILLE RSL 6-8 WESTERN CRESCENT GLADESVILLE, NSW 2111		PRELIMINARY NOT TO BE USED FOR CONSTRUCTION							
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A	PRELIMINARY	CES	17.12.15	NO. REVISION DESCRIPTION		DRAWN DATE		JOB No.		DRAWING No.		REVISION							
								SY151-051		DA010		A							

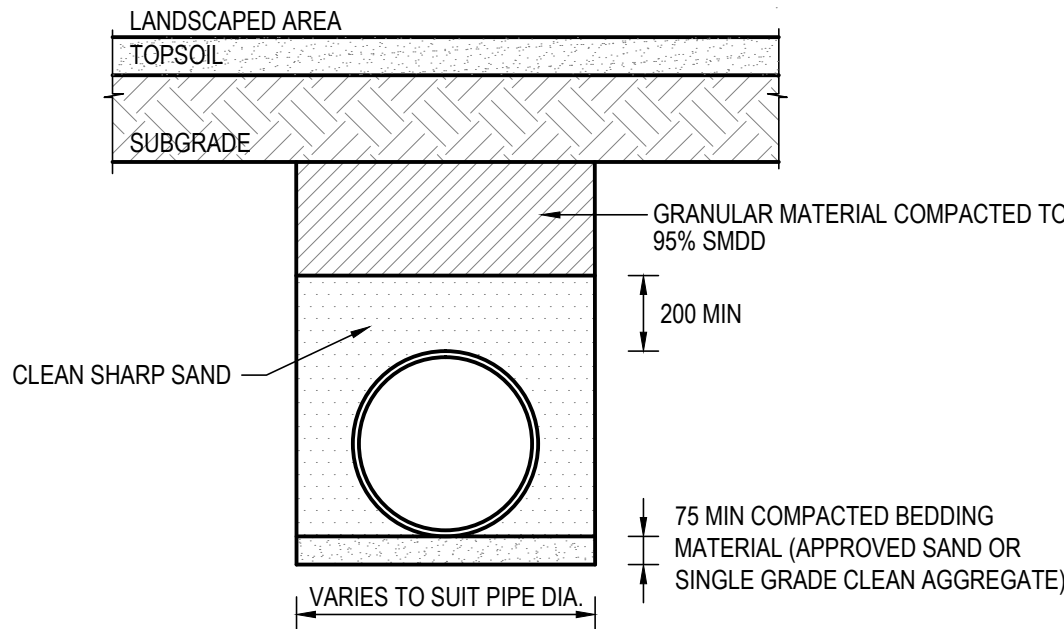
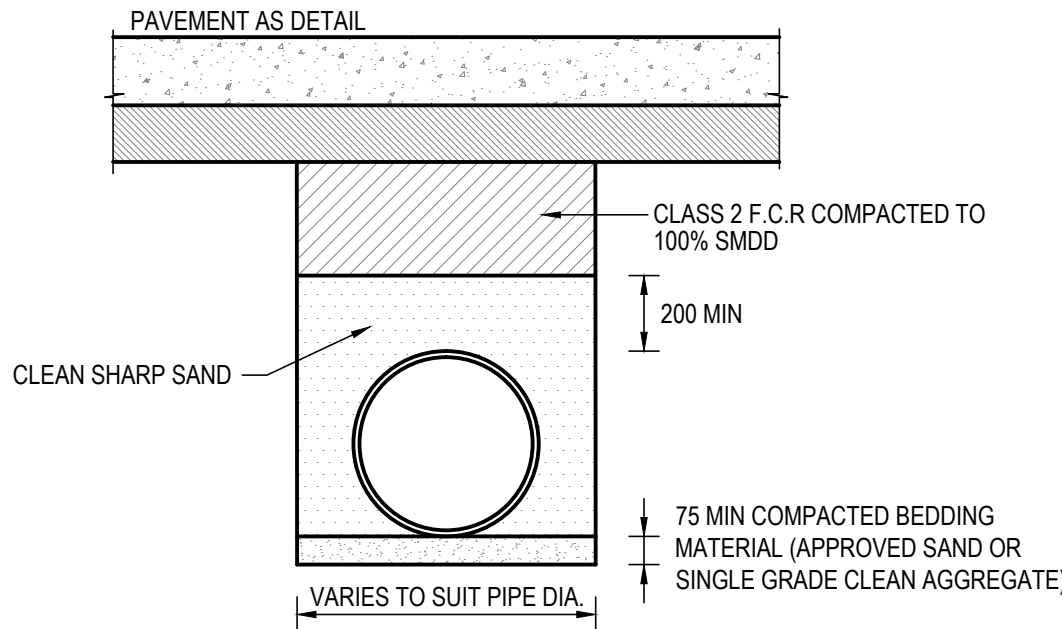


LEGEND

STORMWATER PIPE
REFER TO DETAILS

OSD CALCULATIONS

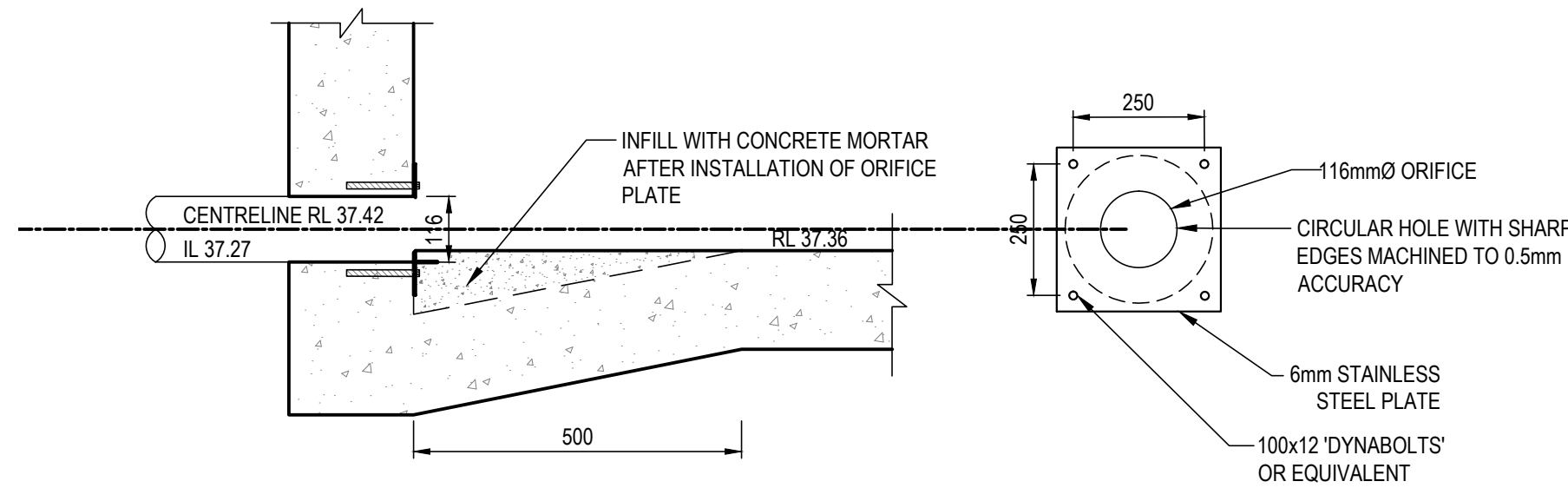
EXISTING SITE - PREDEVELOPMENT
SITE AREA = 1,024m²
PSD = 27.1L/s
REQ. OSD TANK STORAGE = 28.2m³
ORIFICE DIA = 116mm



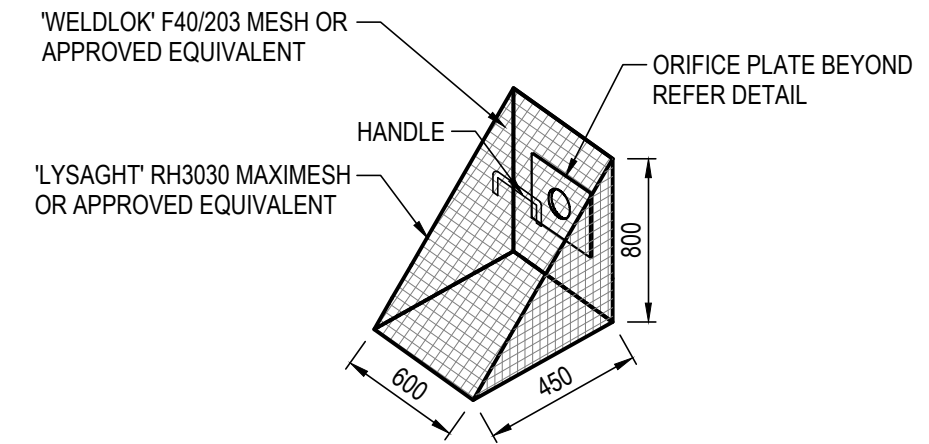
WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE. NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

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B PRELIMINARY				AH		DATE OCT 2015		SHEET SIZE A1		DRAFTSPERSON CES		SCALE AS SHOWN		REVISION	
A PRELIMINARY				CES		DRAWING No. DA011		JOB No. SY151-051		REVISION B					
No.				REVISION DESCRIPTION		DRAWN		DATE							



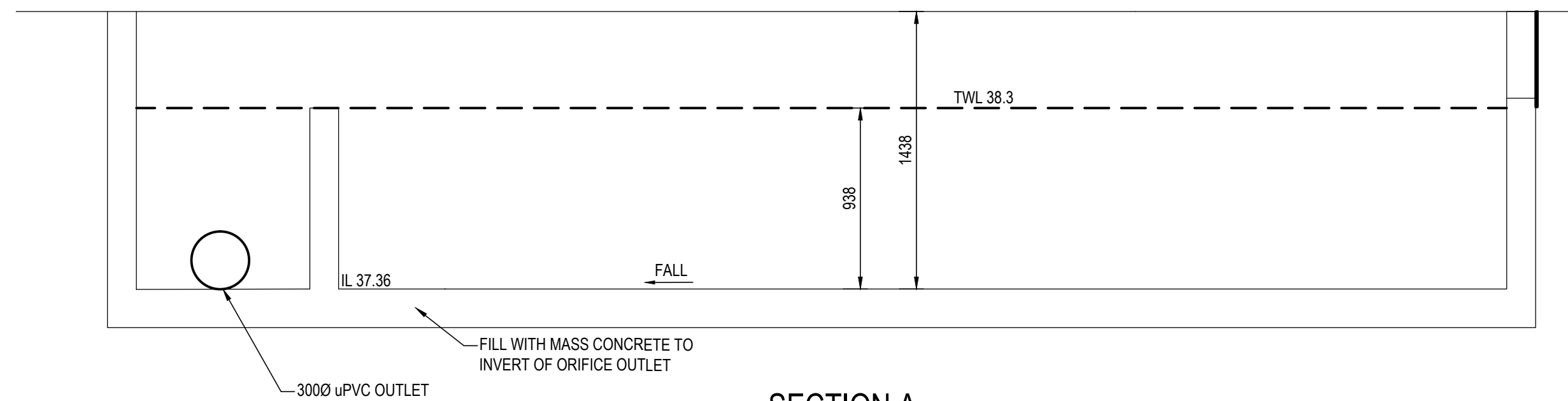
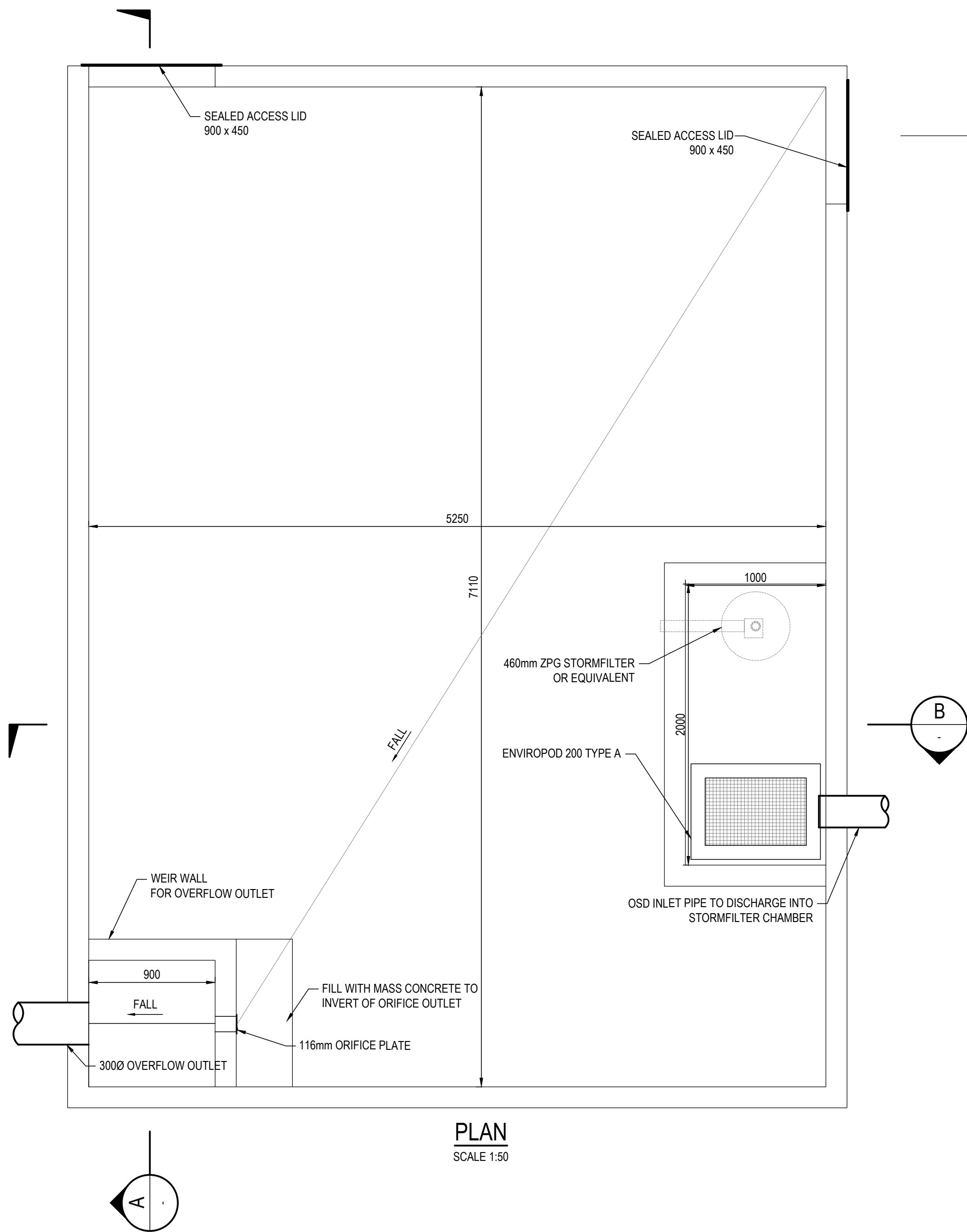
ORIFICE PLATE DETAIL
SCALE 1:10



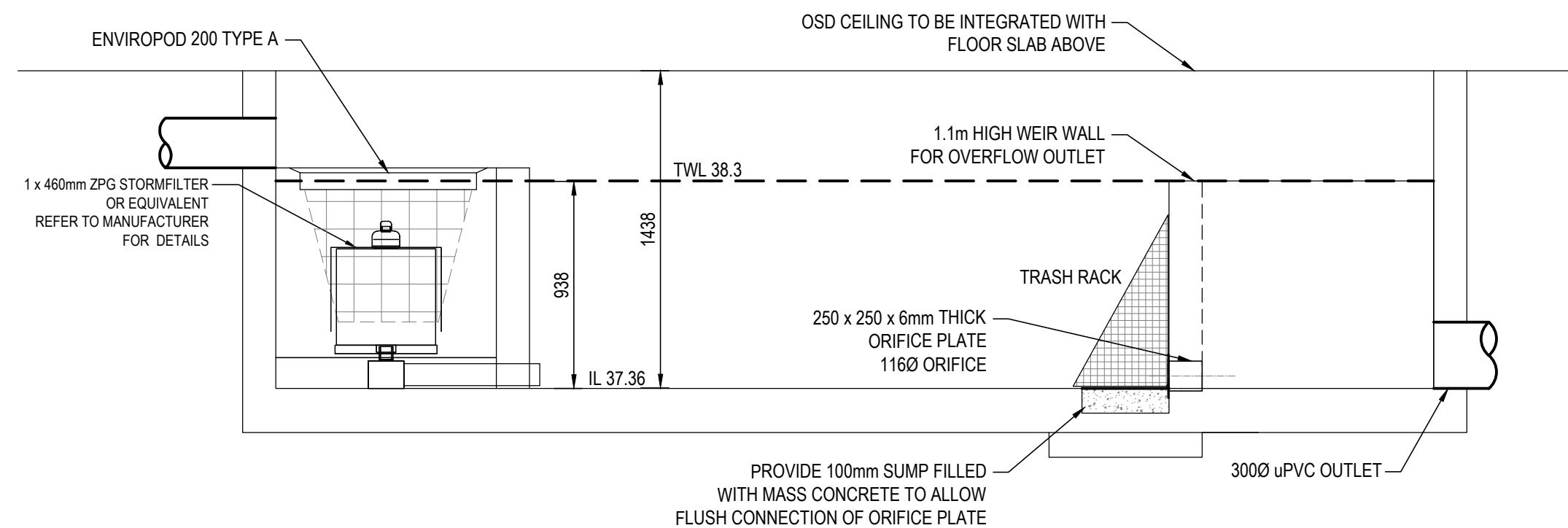
TRASH SCREEN DETAIL
NTS

MESH TYPE	MESH SCREEN AREA
LYSAGHT RH3030 FOR ORIFICE 150Ø OR LESS	>50x ORIFICE DIA
'WELDLOK' F40/203 FOR ORIFICE GREATER THAN 150Ø	>20x ORIFICE DIA

NOTE: SCREEN AREA INCLUDES SIDES WHERE APPLICABLE



SECTION A
SCALE 1:50



SECTION B
SCALE 1:50

8.3 Appendix 3 – Onsite Detention Calculation Sheet

**RYDE CITY COUNCIL
ON-SITE DETENTION CALCULATION SHEET**

DEVELOPMENT TYPE: high-rise residential
ADDRESS: 6-8 Western Crescent, Gladesville

Catchment Zone	(Zone 1)	(Zone 2)	(Eastwood)
Site Area	1024		m² (A)
65% Site Area	665.6		m²
Total Proposed Impervious Area (roofs, driveways, hardstand etc)	1024		m² (B)
% of site Impervious	100		%
Impervious area draining to the Storage Facility	1024		m² (C)
Pervious area draining to the Storage Facility	0		m² (D)
Total area draining to the Storage Facility (Impervious and pervious areas)	1024		m² (E)
Pervious area bypassing the Storage Facility	0		m² (F)
Impervious area bypassing the Storage Facility	0		m² (G)
$(C) \times (G)$	1	1	(L)

must not be greater than 1.25.

Permitted Site Discharge (PSD) rate per m²
Catchments in Zones 1 & 2
If (G)=0 then PSD = 0.0265 l/sec/m²
If (G)≠0 then PSD = 0.0265 x (L)^{-1.37} l/sec/m²

Eastwood Catchment
If (G)=0 then PSD = 0.0210 l/sec/m²
If (G)≠0 then PSD = 0.0210 x (L)^{-1.37} l/sec/m²

PERMITTED SITE DISCHARGE (E) x (J) = 1024 x 0.0265 = 27.1 l/s

Storage Volume per m²
(K) = 0.0275 m³/m² for zone 1 or 2
(K) = 0.0255 m³/m² for zone 2 or
(K) = 0.0300 m³/m² for Eastwood Catchment

SITE STORAGE REQUIREMENT ((E) + (G)) x (K) x 1.2 = 1024 x 0.0265 x 1.2 = 29.2 m³

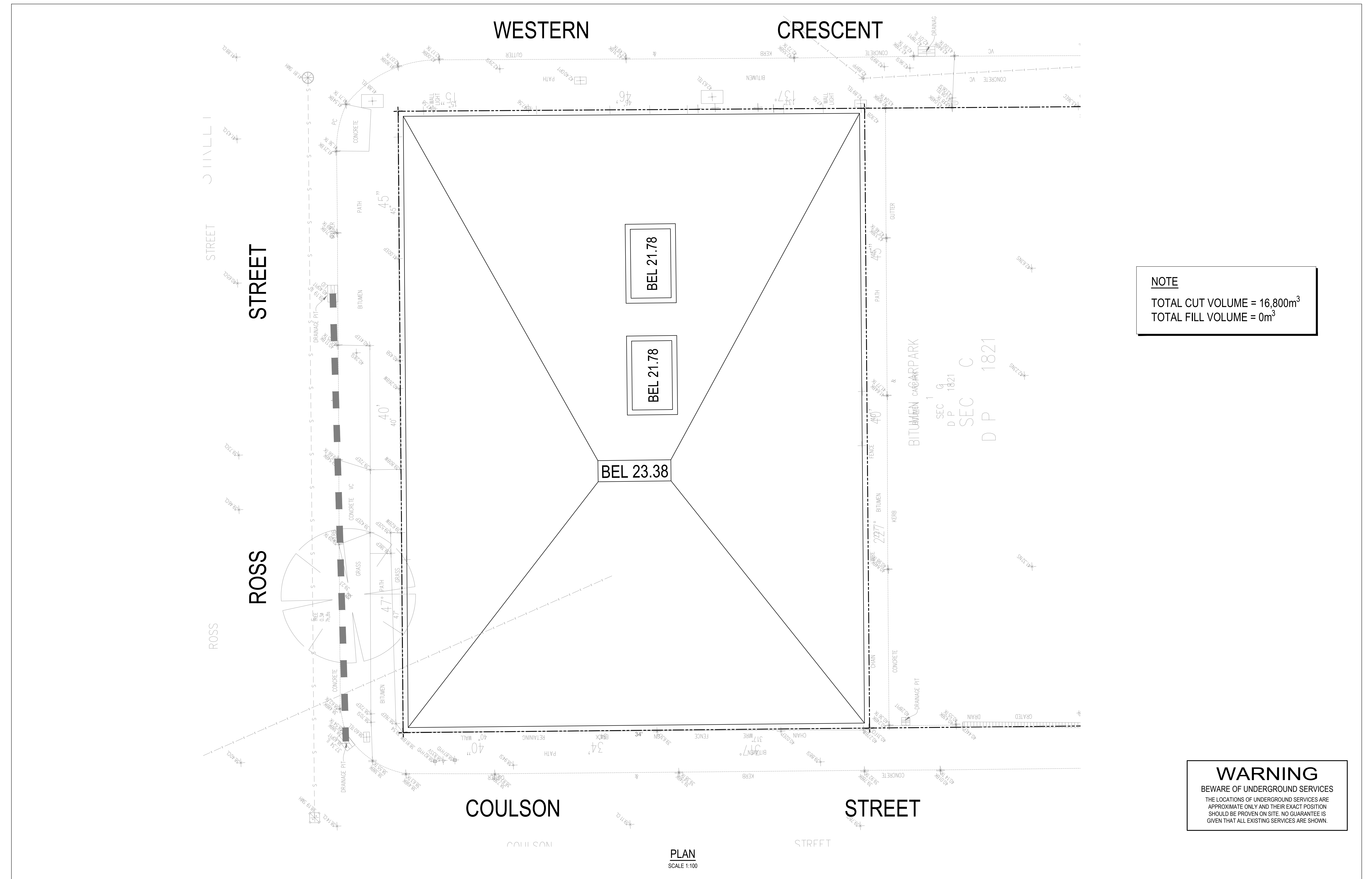
NOTE: If OSD is provided in a landscaped surface basin the volume must be increased by 20%.

OUTLET CONTROL - using a Sharp Edged Orifice Plate:
Height Difference between top water level and Centre of Orifice (m) = 0.93 (H)

ORIFICE DIAMETER (mm) = 21.9 $\sqrt{\frac{PSD}{(H)}}$ = 116 mm

Should pipe and pit losses be used to control outflow, the calculations are to be attached.

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												PROJECT LEADER RJB				DESIGNER CES		SIGNATURE					
												DRAFTSPERSON CES				SCALE AS SHOWN		DATE OCT 2015		SHEET SIZE A1			
B PRELIMINARY				AH 27.01.16																			
A PRELIMINARY				CES 17.12.15																			
No. REVISION DESCRIPTION				DATE DRAWN												JOB No.		DRAWING No.		REVISION			
																SY151-051		DA012		B			



PLAN
SCALE 1:100

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				PROJECT LEADER RJB	DESIGNER CES	SIGNATURE
				DRAFTSPERSON CES	SCALE AS SHOWN	DATE OCT 2015
				JOB No. SY151-051	DRAWING No. DA013	SHEET SIZE A1 REVISION A