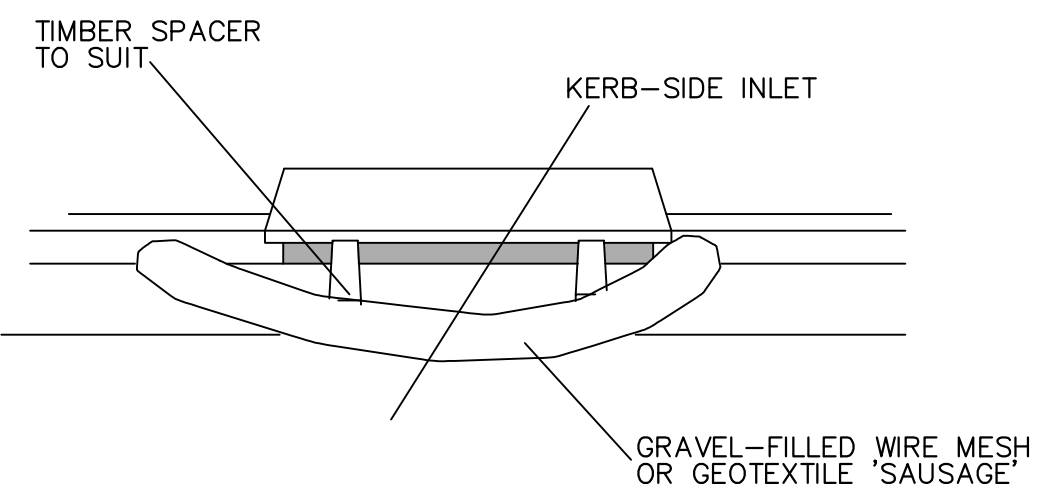
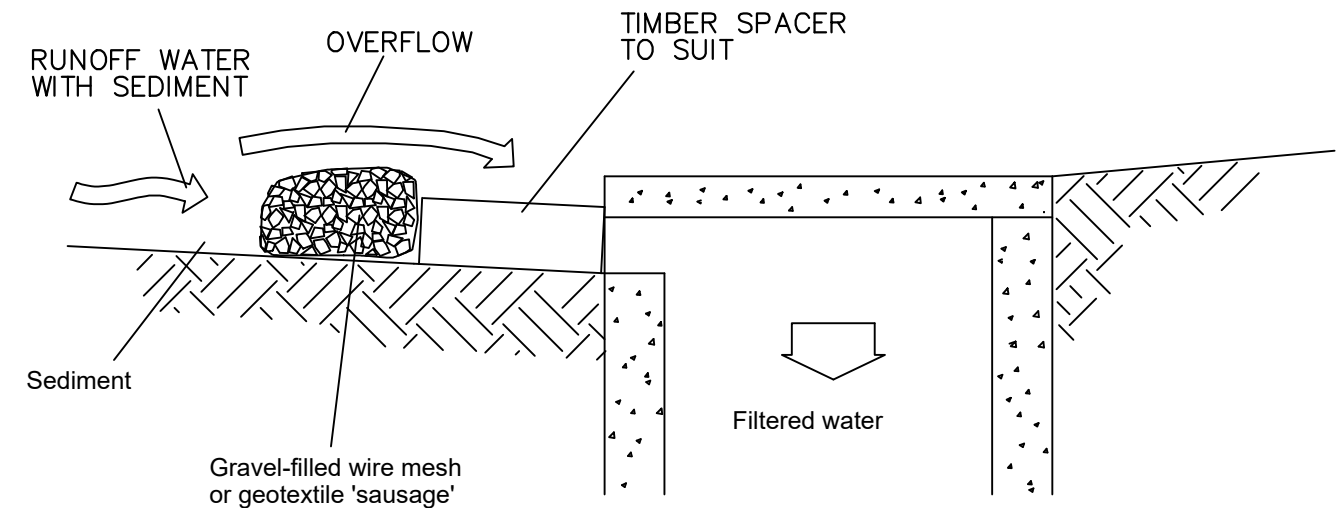
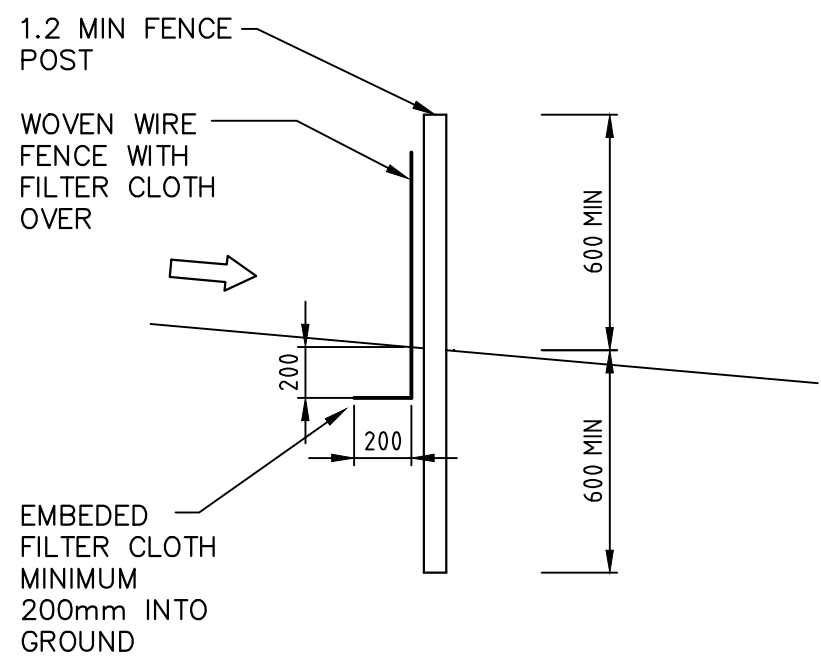


SEDIMENTATION AND EROSION CONTROL PLAN

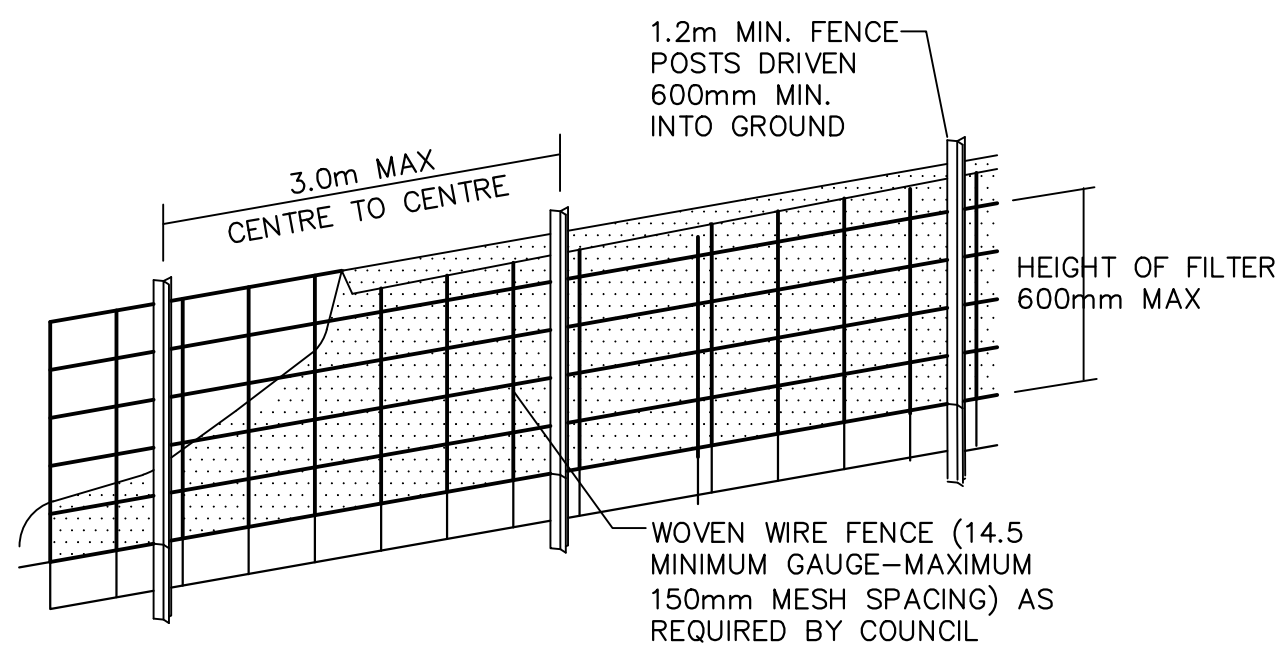
- SEDIMENTATION AND EROSION CONTROL NOTES
1. SELECTIVE CLEARING OF VEGETATION TO BE RESTRICTED TO NOMINATED AREAS WITH CLEARED VEGETATION WIND ROWED ON THE CONTOUR.
 2. ALL EROSION AND SEDIMENT CONTROL MEASURES TO BE INSTALLED PRIOR TO SITE DISTURBANCE.
 3. TOPSOIL FROM ALL AREAS THAT WILL BE DISTURBED TO BE STRIPPED AND STOCKPILED AT THE NOMINATED SITE.
 4. NO MORE THAN 150m OF TRENCH TO BE OPEN AT ANY ONE TIME.
 5. CUT AND FILL BATTER GRADIENTS OF 1:2 (MAXIMUM).
 6. A STRIP OF TURF 450mm WIDE IS TO BE PLACED IMMEDIATELY BEHIND THE KERB ON ALL NEW ROAD TO ACT AS A FILTER TRAP. REFER TO DETAIL.
 7. ALL SEDIMENT CONTROL STRUCTURES TO BE INSPECTED BY SITE SUPERVISOR AFTER EACH RAINFALL EVENT FOR STRUCTURAL DAMAGE AND ALL TRAPPED SEDIMENT TO BE REMOVED TO A NOMINATED STOCKPILE SITE.
 8. THE PROJECT MANAGER TO INFORM ALL CONTRACTORS AND SUB-CONTRACTORS OF THEIR OBLIGATIONS UNDER THE EROSION AND SEDIMENT CONTROL PLAN.
 9. NO DISTURBED AREA IS TO REMAIN DENUDED LONGER THAN 14 DAYS.
 10. ALL FILLS ARE TO BE LEFT WITH A LIP AT THE TOP OF THE SLOPE AT THE END OF EACH DAY'S OPERATION.
 11. THE CONTRACTOR MUST ENSURE THE SUITABILITY AND INTEGRITY OF ALL WORKS AT THE END OF EACH DAY'S WORK.
 12. ORANGE BARRIER TAPE TO BE AFFIXED TO TOP OF SEDIMENT CONTROL BARRIER TO IDENTIFY WORK AREA.
 13. ALL SEDIMENTATION & EROSION CONTROL MEASURES ARE TO STRICTLY COMPLY WITH THE GUIDELINES DETAILED IN THE DEPARTMENT OF HOUSING PUBLICATION, "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTION", 4TH EDITION.
 14. WATER TRUCKS TO BE USED AS REQUIRED TO PREVENT WIND EROSION.
 15. SUBGRADE MATERIAL TO BE CONSTRUCTED IMMEDIATELY FOLLOWING FILL.



DETAIL
SAND BAG DETAILS
NOT TO SCALE



TYPICAL SECTION

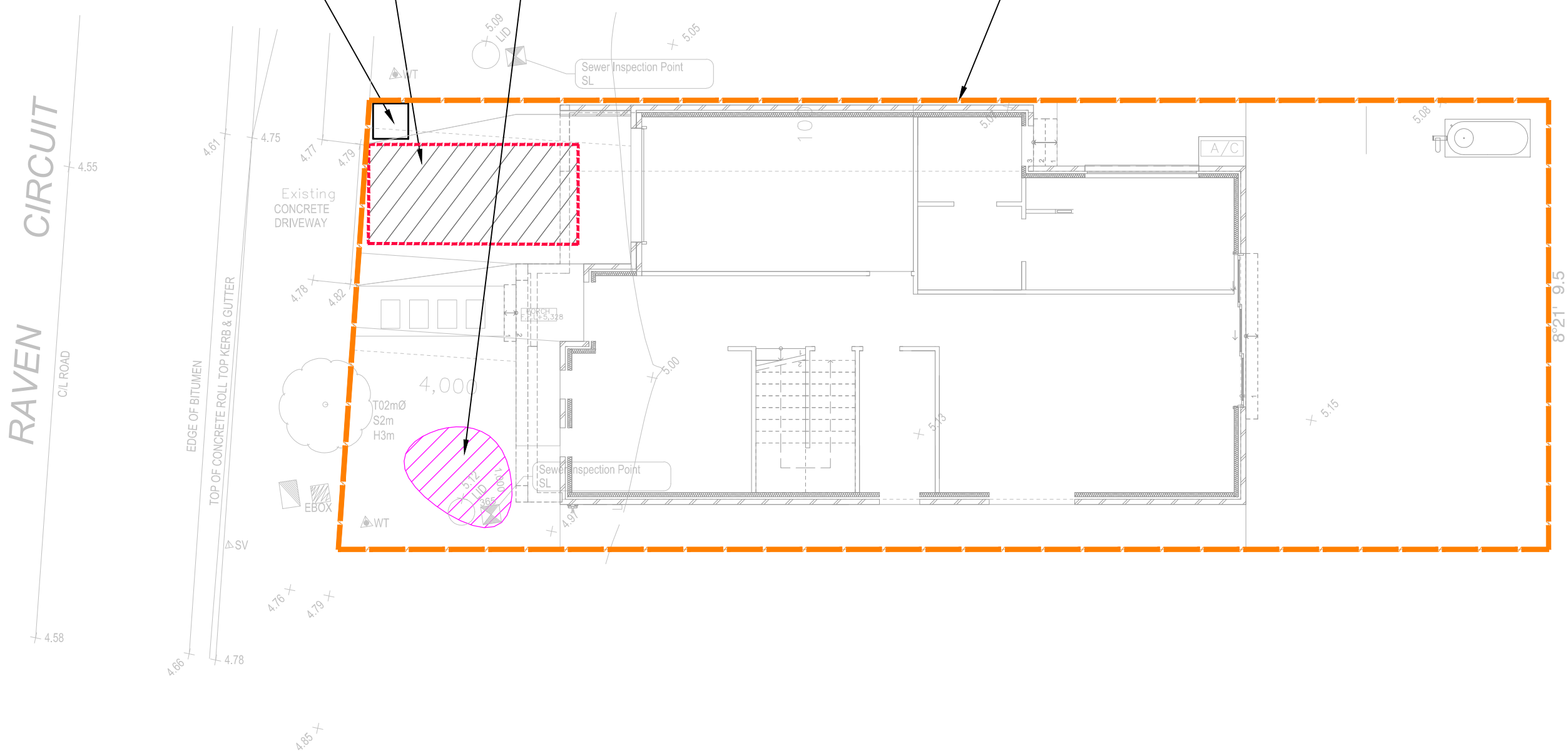


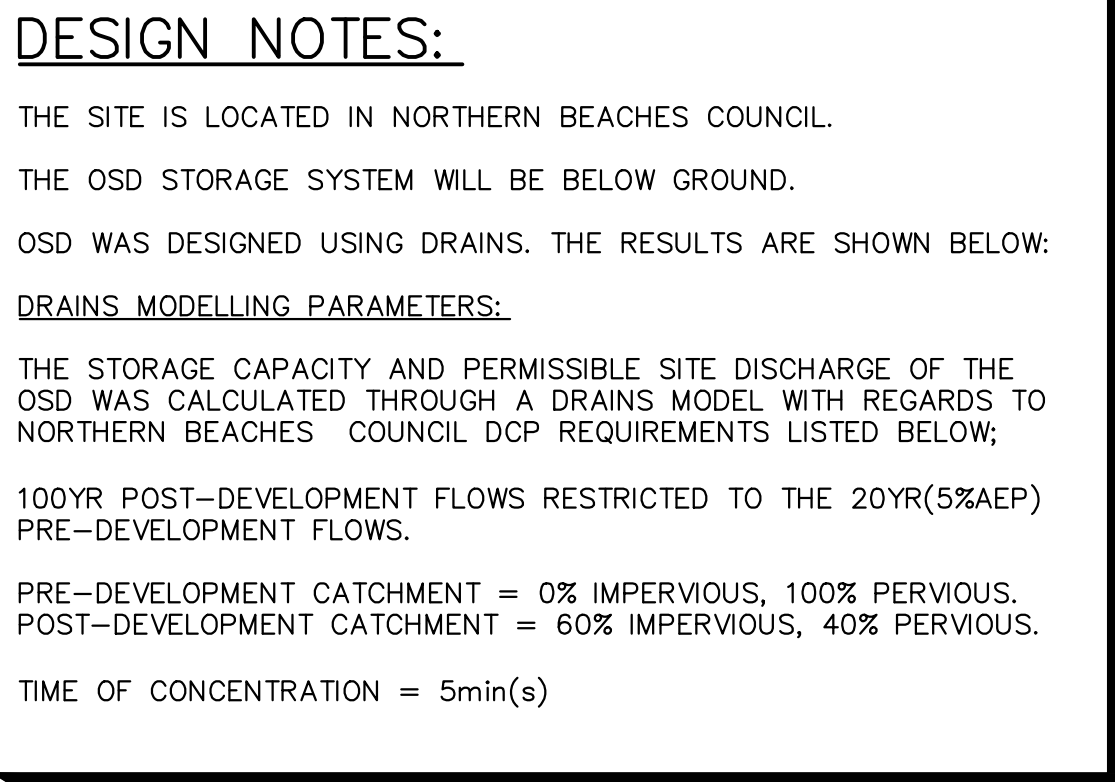
DIAGRAMMATIC VIEW

DETAIL
SEDIMENT FENCE
NOT TO SCALE

CONSTRUCT TEMPORARY RUBBLE ENTRY/EXIT TO PREVENT TRANSFER OF SEDIMENT AND DEBRIS DURING VEHICULAR TRAFFIC (REFER DETAIL). LOCATION TO BE CONFIRMED ON SITE.

CONSTRUCT TEMPORARY SILT FENCE AROUND PITS AS SHOWN (TYP). REFER DETAIL.





ALL DOWNPIPES AND STORMWATER PIPES SHOWN ON PLAN ARE
Ø100mm uPVC AND SLOPE AT 1% U.N.O (TYP).

PROPOSED DOWNPIPE LOCATIONS ARE NOMINAL AND TO BE
CONFIRMED DURING CONSTRUCTION (TYP).

ALL STORMWATER OSD/PITS AND PIPES TO BE A MINIMUM OF 0.6m
CLEAR FROM EXISTING SEWER LINE IF PRESENT ON SITE (TYP).

INSTALL CLEAR OUT FOR INSPECTION AND MAINTENANCE PURPOSES
WHERE REQUIRED (TYP).

ALL DOWNPIPES AND STORMWATER PIPES SHOWN ON PLAN ARE
Ø100mm uPVC AND SLOPE AT 1% U.N.O (TYP).

ALL PROPOSED STORMWATER SERVICES TO BE CONSTRUCTED AT
MINIMUM 0.6m CLEAR DISTANCE FROM EXISTING SEWER PIPE.

EXISTING SERVICES SHOWN ON PLAN ARE INDICATIVE ONLY.
CONTRACTOR TO DETERMINE EXACT SIZE, LOCATION AND DEPTH
BEFORE COMMENCING ANY WORKS (TYP).

CONSTRUCTION OVER EASEMENTS LOCATED ON SITE IS PROHIBITED.
CONTRACTOR TO ENSURE THERE ARE NO OBSTRUCTIONS (TYP).

PROVIDE SUBSOIL DRAINAGE WITHIN LANDSCAPED AREAS & BEHIND
RETAINING WALLS TO PREVENT LONG TERM SATURATION DURING
PROLONGED WET WEATHER.

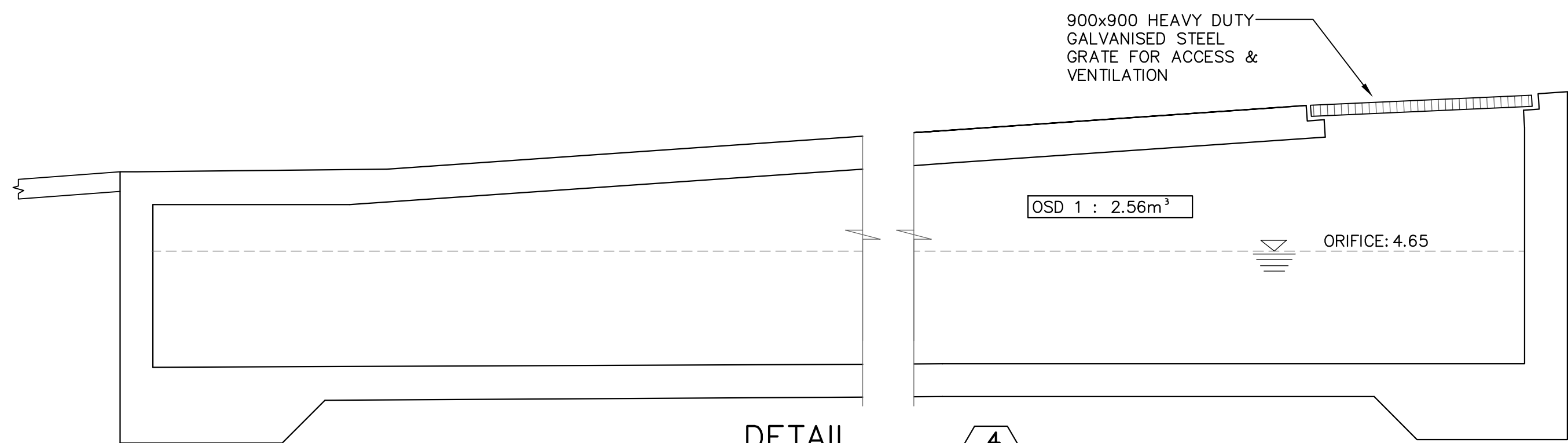
OSD CALCULATIONS SUMMARY:
SSR = 8.8m³ OR AS CLOSE AS POSSIBLE
PSD = 3.31L/s
(VALUES TO BE CONFIRMED BY COUNCIL)
SITE AREA SUMMARY:
TOTAL SITE AREA = 240m²
TOTAL INTO OSD = 236.5m²
TOTAL BYPASS = 3.5m²
(1.45% OF TOTAL SITE AREA)
VOLUME CALCULATIONS:
OSD 1 VOLUME PROVIDED = 2.56m³
OSD 2 VOLUME PROVIDED = 1.95m³
OSD 3 VOLUME PROVIDED = 1.75m³

TOTAL VOLUME PROVIDED = 6.26m³

ORIFICE SIZING CALCULATIONS:
USING ORIFICE EQUATION
ORIFICE ϕ = 21.9 x (PSD/(H/0.5))^{0.5} = 102mm
WHERE PSD = 3.31L/s, DEPTH TO ORIFICE CL = 0.5 (H),
THEREFORE PROVIDE 46mm SHARP EDGED OPENING IN
ORIFICE PLATE

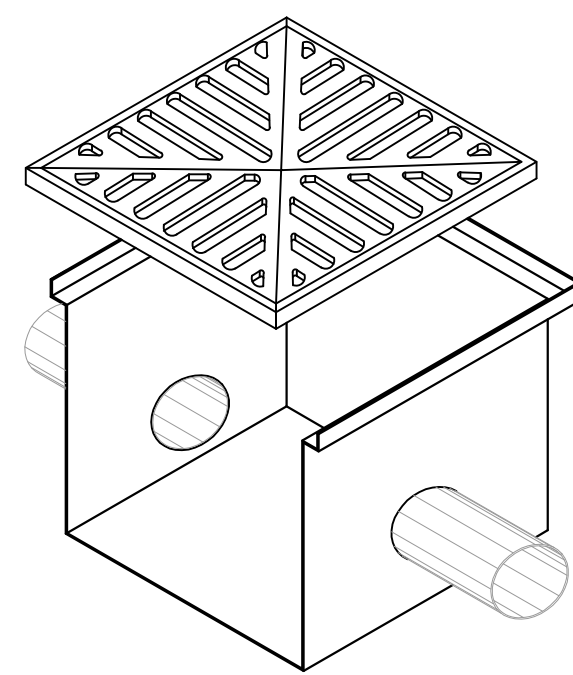
				 <p>AUSTRAX STRUCTURAL CIVIL ENGINEERS</p> <p>PH: 0423095373</p> <p><small>2/4 COLONY CLOSE, TUGGERAH NSW 671 HUNTER STREET, NEWCASTLE NSW 38 STATION STREET, BONNELLS BAY NSW</small></p> <p>Structural • Civil • Hydraulic • Flooding • Residential • Commercial Industrial • Land Development</p> <p><small>©This drawing is copyright to Global Consulting Engineers, no part of this drawing shall be used for any other purpose without the prior written consent of Global Consulting Engineers.</small></p>	CLIENT D PROJECTS	COUNCIL NORTHERN BEACHES COUNCIL	TITLE STORMWATER DRAINAGE PLAN DRAWING FOR APPROVAL			
D	FOR CONSTRUCTION	15.05.2025	G.K.		PROJECT 10 RAVEN CIRCUIT WARRIEWOOD NSW		DATE 15.05.2025	DESIGNED: G.K	ENGINEER: G.K.	CHECKED: G.K.
C	FOR CONSTRUCTION	21.04.2025	G.K.				SCALE 1:200-A3	PROJECT NO. GCE.24478	DRAWING NO. SWDP03	REVISION NO. D
B	FOR CONSTRUCTION	05.04.2025	G.K.							
A	FOR CONSTRUCTION	11.01.2025	G.K.							
REV	DESCRIPTION	DATE	APP							





DETAIL
DCP - ONSITE
DETENTION TANK

4



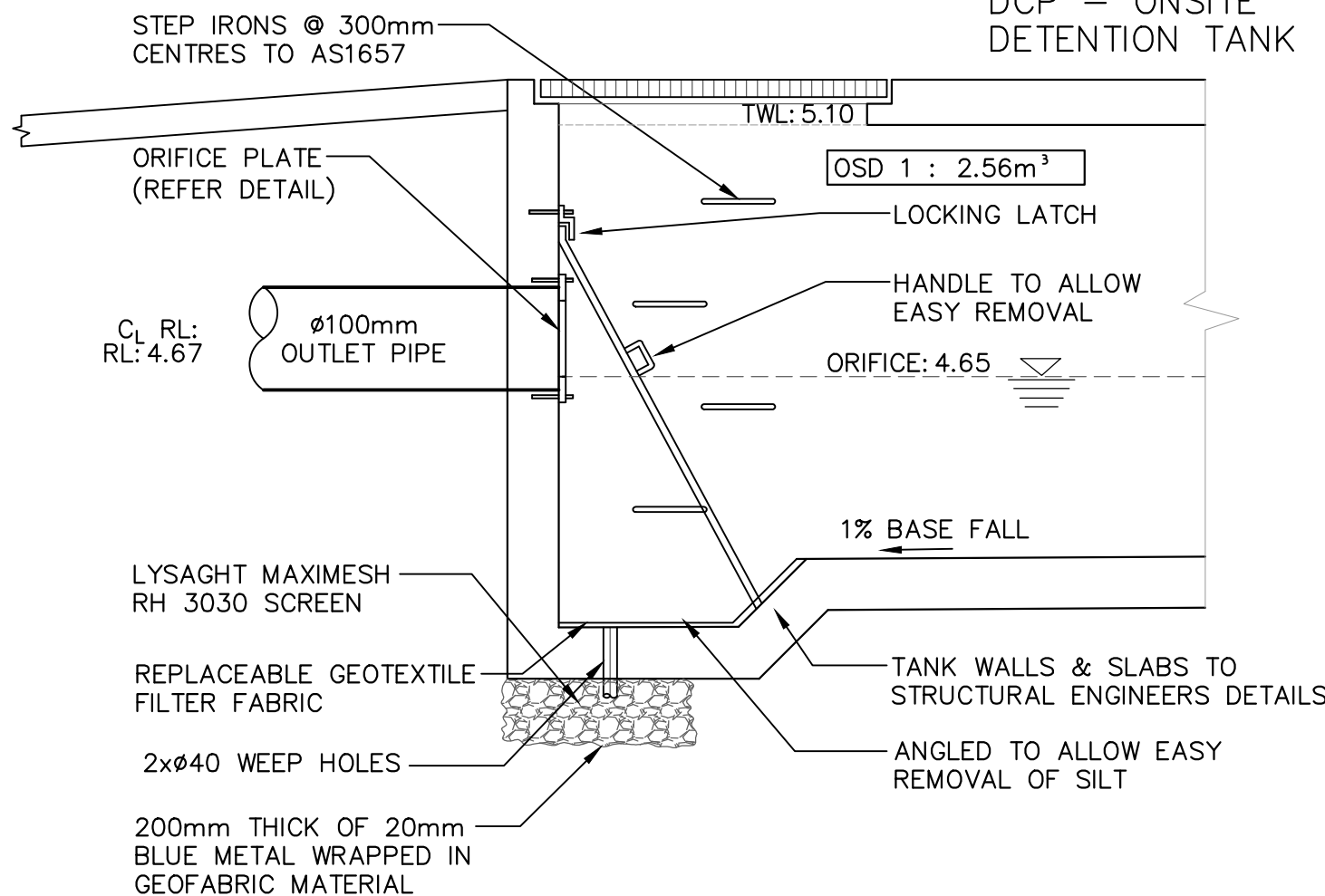
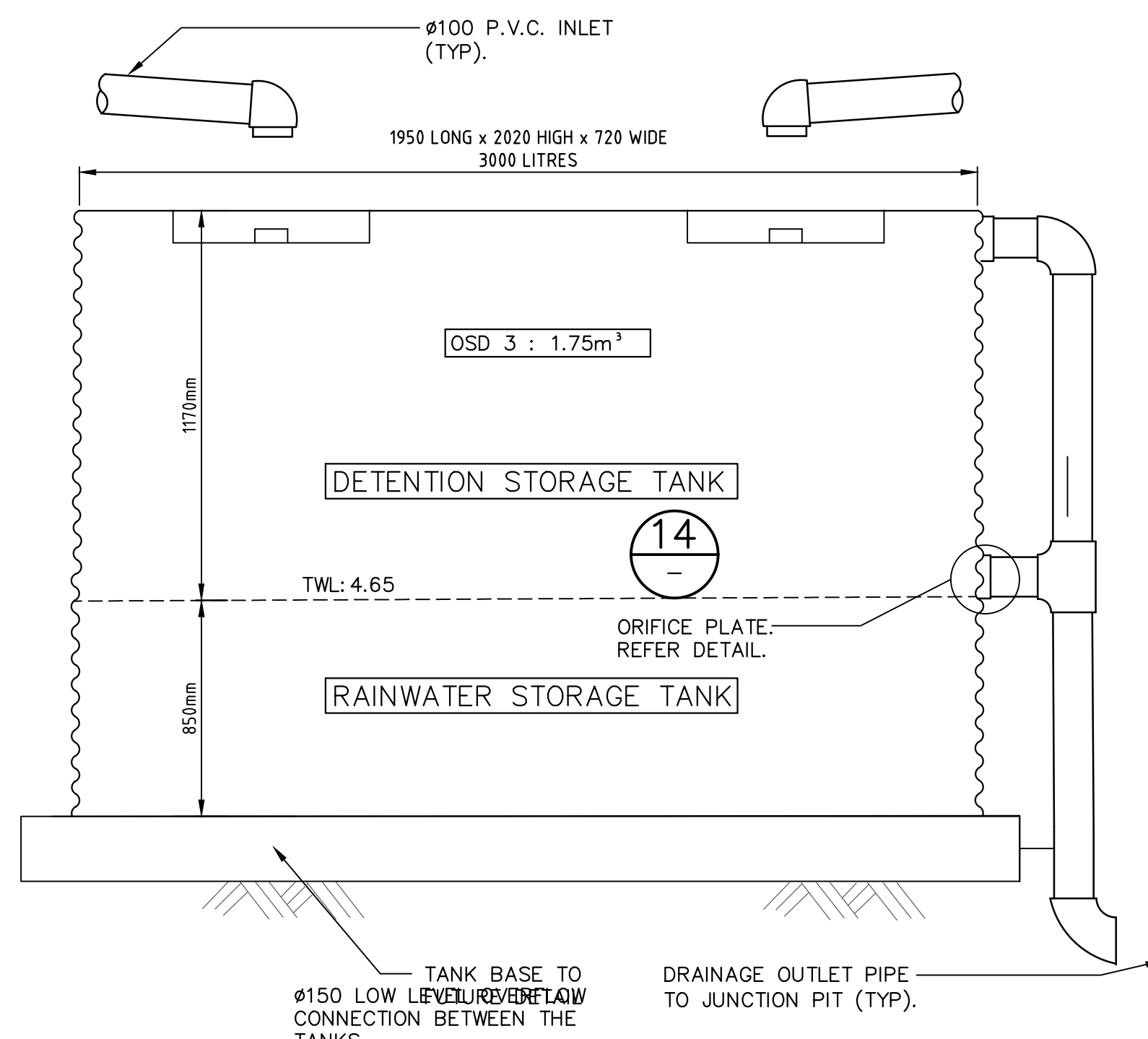
DETAIL
POLY PIT CLASS A
COVER
(FOR LANDSCAPED AND
BACKYARD AREAS ONLY)

7



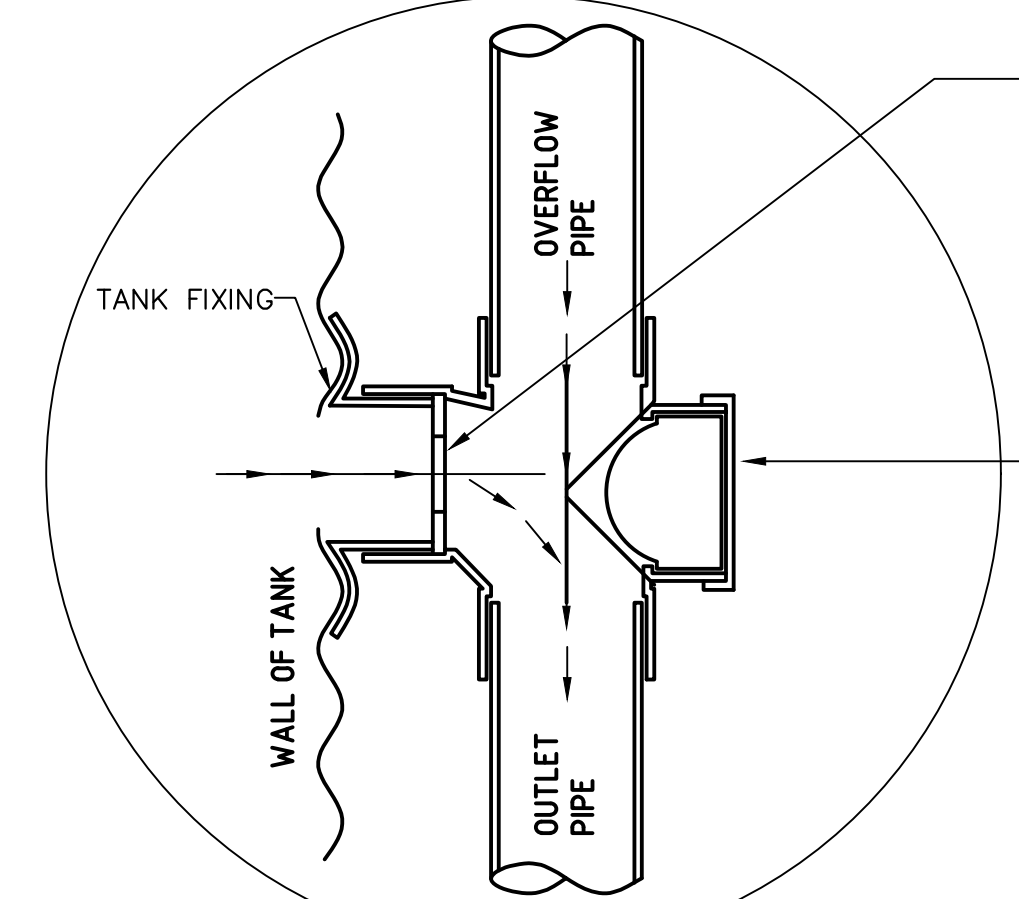
DETAIL
RAINWATER SIGN

6



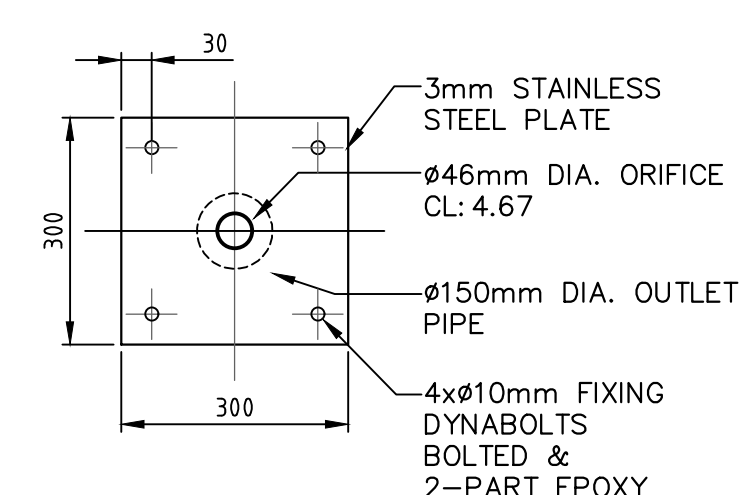
DETAIL
DCP - ONSITE
DETENTION TANK

5



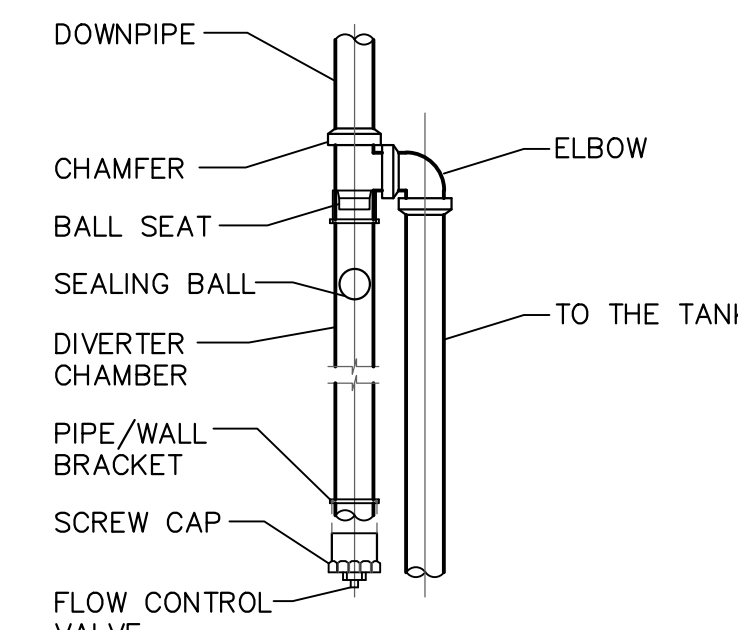
DETAIL
CLEANING EYE

14



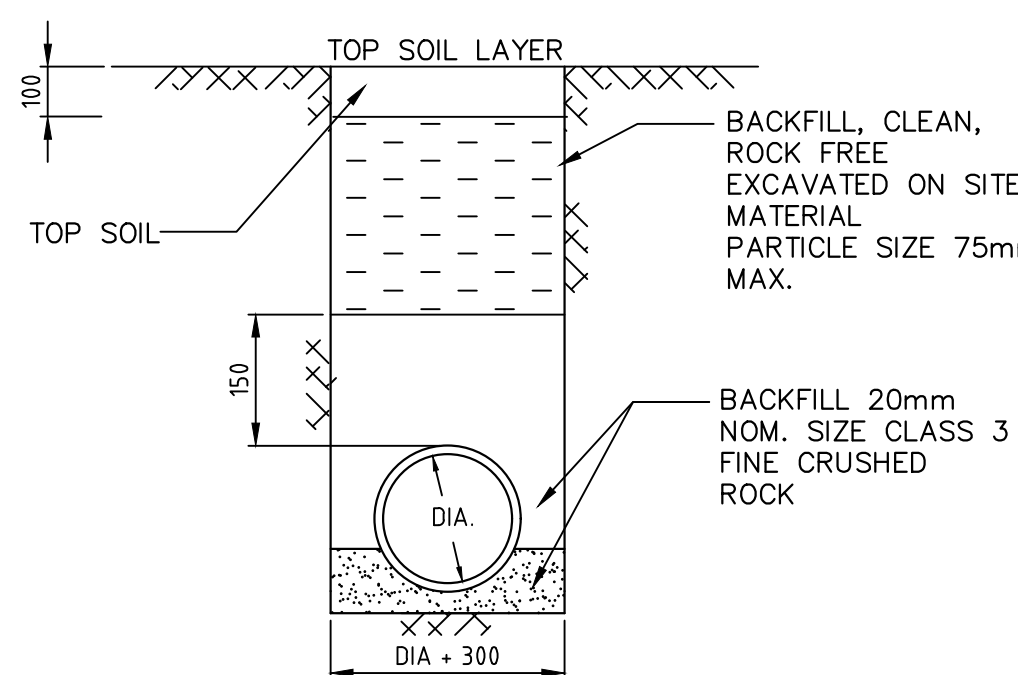
DETAIL
ORIFICE PLATE

9



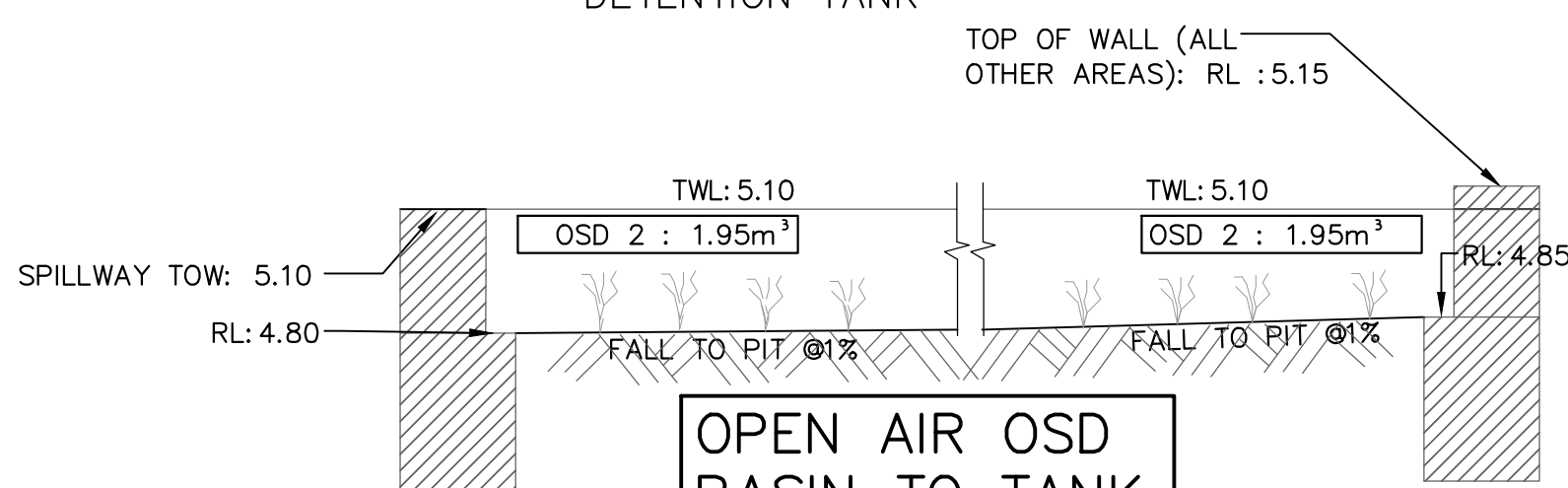
DETAIL
RAINWATER
STORAGE TANK

10



DETAIL
TRENCH FOR
PIPING
NOT UNDER
PAVEMENT

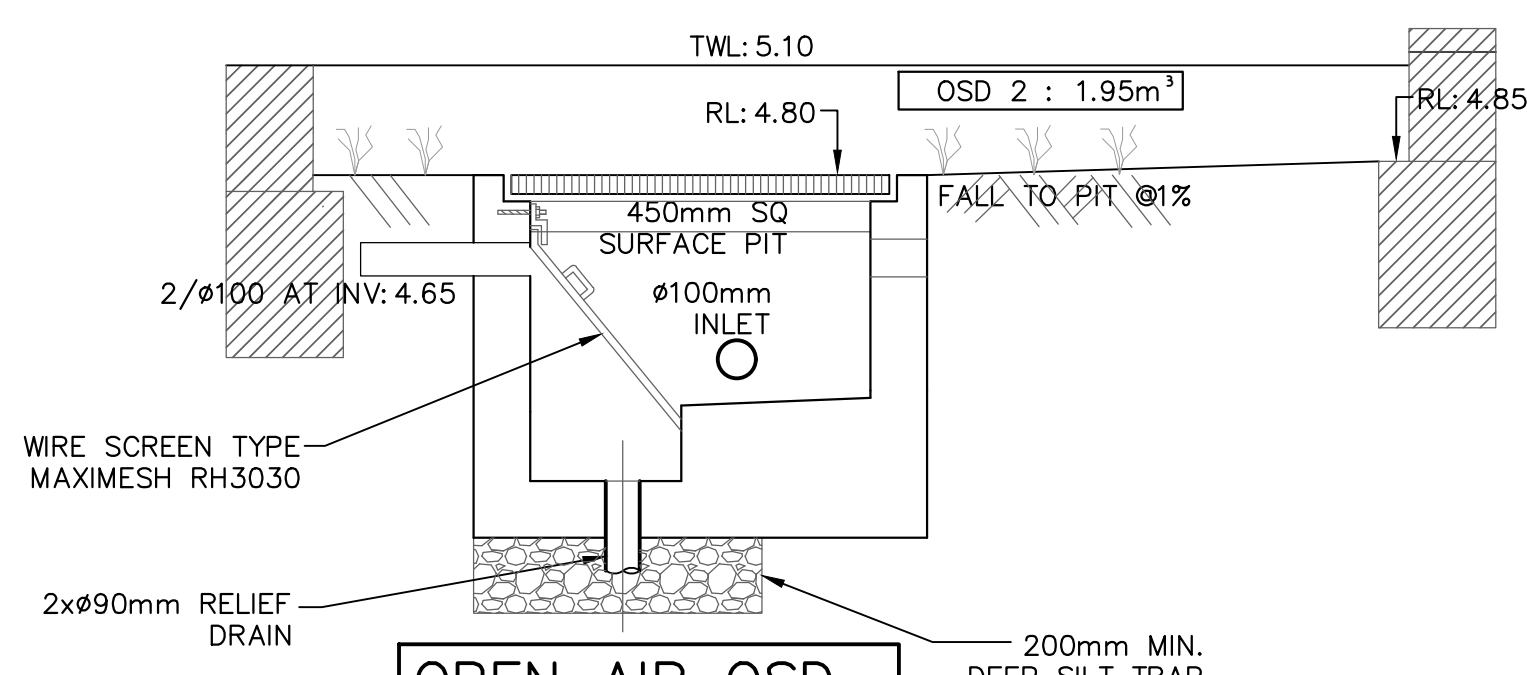
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OPEN AIR OSD
BASIN TO TANK

SECTION A
SCALE 1:20

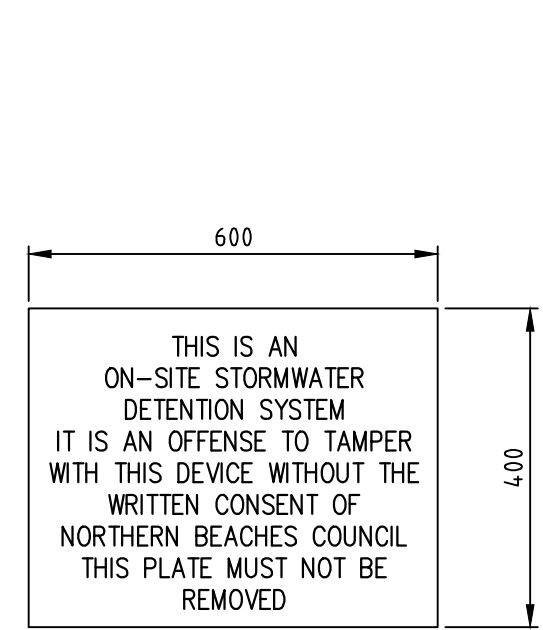
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OPEN AIR OSD
BASIN TO TANK

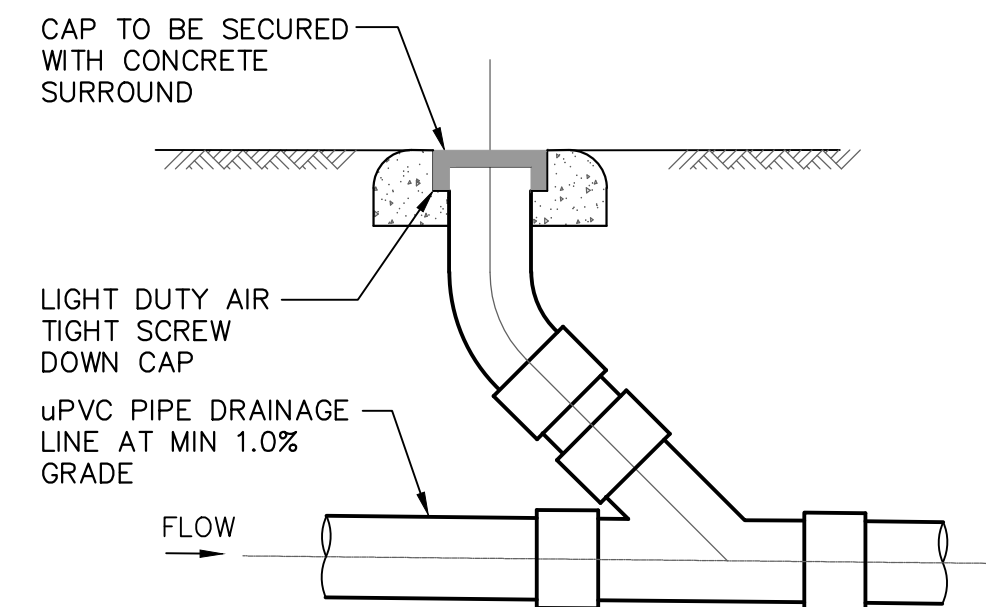
SECTION B
SCALE 1:20

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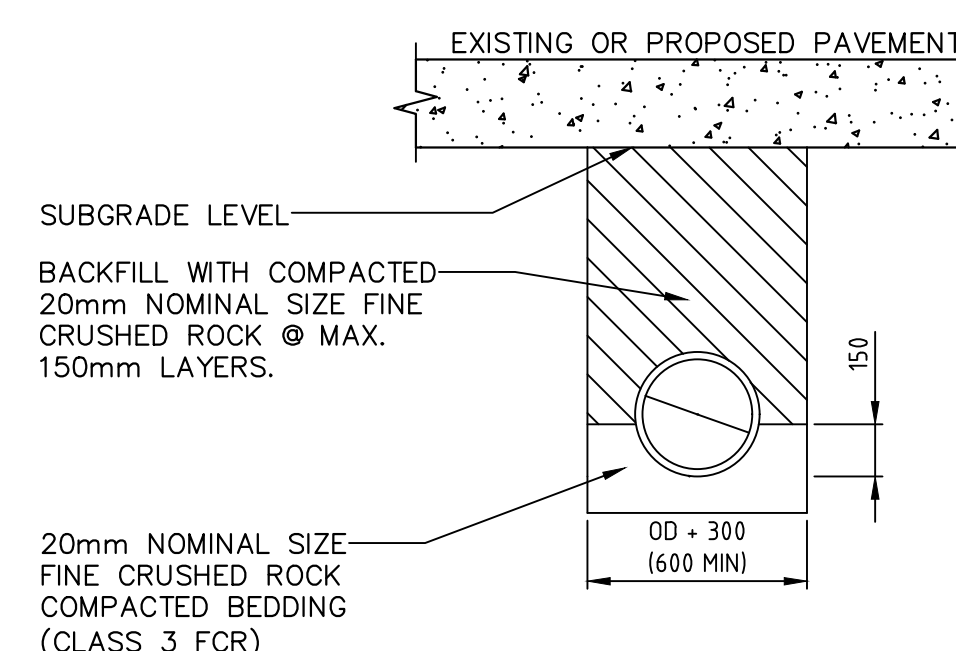
DETAIL
OSD SIGN

8



DETAIL
CLEANING EYE

11



DETAIL
TRENCH FOR
PIPING UNDER
PAVEMENT

12

REV	DESCRIPTION	DATE	APP
D	FOR CONSTRUCTION	15.05.2025	G.K.
C	FOR CONSTRUCTION	21.04.2025	G.K.
B	FOR CONSTRUCTION	05.04.2025	G.K.
A	FOR CONSTRUCTION	11.01.2025	G.K.

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CLIENT	D PROJECTS	COUNCIL	NORTHERN BEACHES COUNCIL	TITLE DRAINAGE DETAILS DRAWING FOR APPROVAL			
PROJECT	10 RAVEN CIRCUIT WARRIEWOOD NSW			DATE	DESIGNED:	ENGINEER:	CHECKED:
				15.05.2025	G.K	G.K.	G.K.
				SCALE	PROJECT NO.	DRAWING NO.	REVISION NO.
				1:200-A3	GCE.24478	SWDP04	D