PROJECT: RESIDENTIAL DEVELOPMENT

CONCEPT STORMWATER DRAINAGE PLAN PLANSET:

CLIENT: KINGSFORD PROPERTY DEVELOPMENTS PTY LTD



LOCALITY PLAN NOT TO SCALE

LGA: WOOLLAHRA MUNICIPAL COUNCIL

351-353 NEW SOUTH HEAD RD, DOUBLE BAY, NSW, 2028

A1 / A3 LANDSCAPE (A1LC_v02.0.01)

DEVELOPMENT APPLICATION,

DRAWN DESIGNED CHECKED APPRVD SCALE REV DESCRIPTION DATUM PROJECT MANAGER 19/07/2021 MINOR AMENDMENT KINGSFORD PROPERTY DEVELOPMENTS B SECTION 68 TO OPERATE ONSITE SYSTEM 16/07/2021 EZ SL A INITIAL RELEASE PROJECT NAME/PLANSET TITLE 21/05/2019 LL CG/CL SZ DISCLAIMER & COPYRIGHT This plan must not be used for construction unless signed as approved by RESIDENTIAL DEVELOPMENT principal certifying authority. All measurements in millimetres unless otherwise specified. CONCEPT STORMWATER DRAINAGE PLAN This drawing must not be reproduced in whole or part without prior written consent of Martens & Associates Pty Ltd. 351-353 NEW SOUTH HEAD RD, DOUBLE BAY, NSW (C) Copyright Martens & Associates Pty Ltd

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Consulting Engineers

DRAWING LIST

DWG NO. REV DWG TITLE

PS01-A000 C COVER SHEET

DRAINAGE WORKS

CONSTRUCTION MANAGEMENT WORKS

PS01-B310 A SEDIMENT AND EROSION CONTROL DETAILS

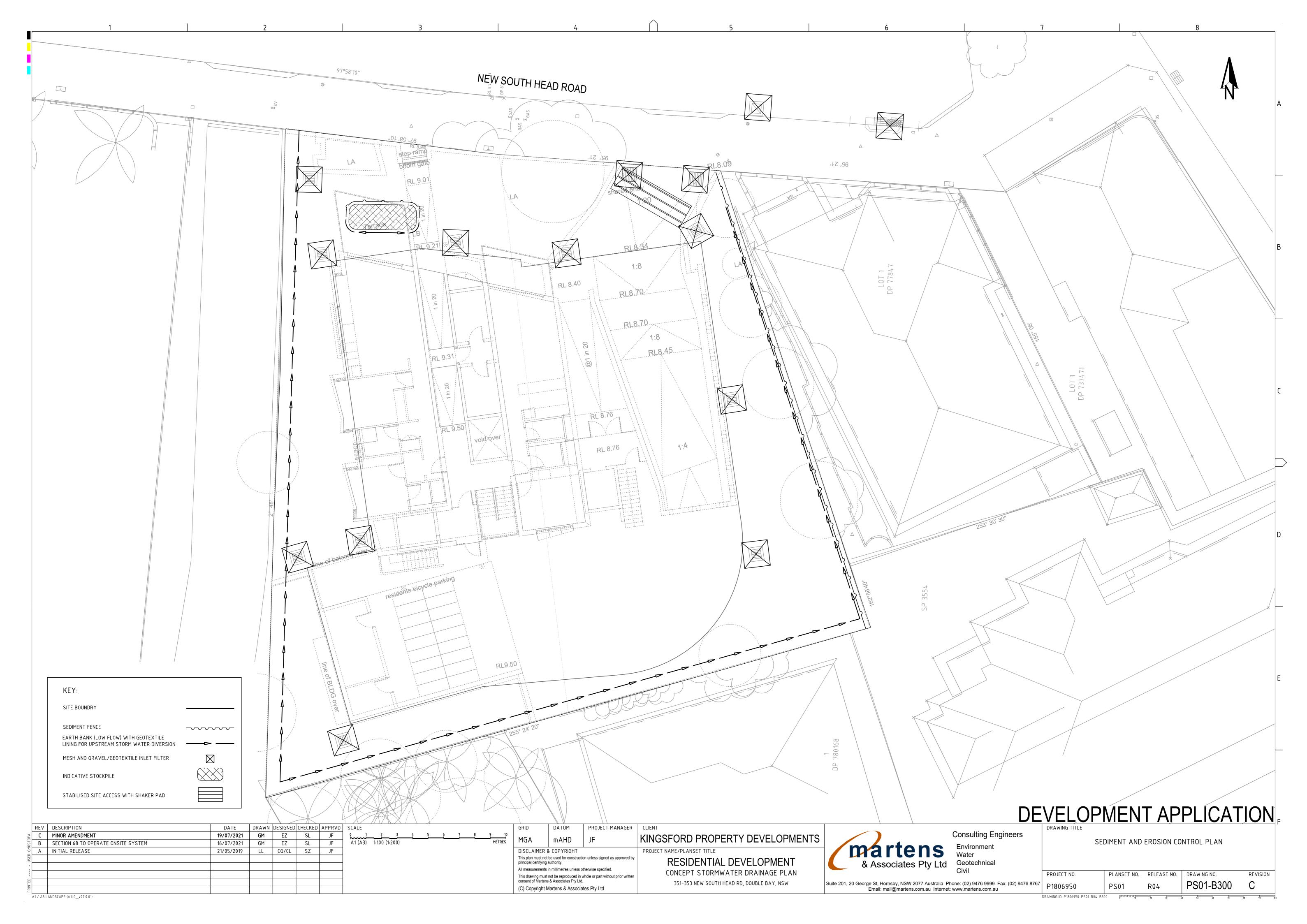
DRAINAGE DETAIL PLAN

DETENTION CATCHMENT PLAN WATER QUALITY CATCHMENT PLAN

SEDIMENT AND EROSION CONTROL PLAN

STORMWATER PLAN - GROUND FLOOR STORMWATER PLAN - BASEMENT

COVER SHEET PROJECT NO. RELEASE NO. DRAWING NO. REVISION PS01-A000 Suite 201, 20 George St, Hornsby, NSW 2077 Australia Phone: (02) 9476 9999 Fax: (02) 9476 876 P1806950

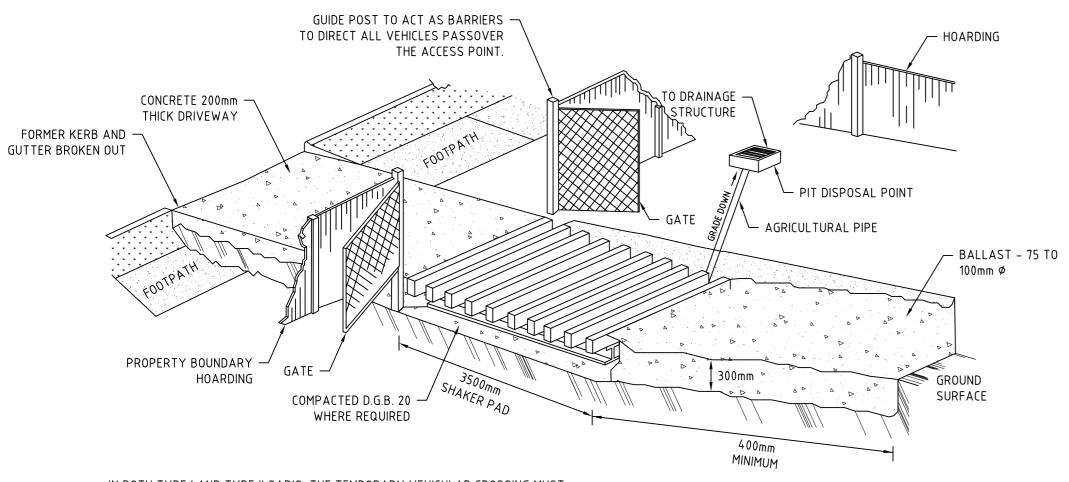


STABILISED ACCESS POINT

TYPE II SAP

THE TYPE II SAP DESIGN IS MORE DEFINED IN THAT IT REQUIRES AN AREA OF BALLAST WITHIN THE SITE COMBINED WITH A SHAKER PAD; ADJACENT THE SHAKER PAD AND IN THE PUBLIC WAY IS A TEMPORARY (CONCRETE) VEHICULAR CROSSING. (SEE DIAGRAM)

STABILISED ACCESS POINT - TYPE 2



IN BOTH TYPE I AND TYPE II SAP'S, THE TEMPORARY VEHICULAR CROSSING MUST:

- CONNECT TO AN EXISTING GUTTER LAYBACK (WHERE THE KERB AND GUTTER EXIST) . IF A GUTTER LAYBACK DOES NOT EXIST THEN THE
- CONNECTION MUST BE MADE TO THE GUTTER BY REMOVING THE ADJCENT KERB SECTION ONLY. • CONNECT TO A DISH CROSSING (WHERE KERB AND GUTTER DOES NOT EXIST). IF A DISH CROSSING DOES NOT EXIST, THEN IT MUST BE
- CONSTRUCTED IN ACCORDANCE WITH DETAILS CONTAINED IN COUNCIL'S ISSUED FOOTPATH CROSSING LEVELS.

IT SHOULD BE NOTED THAT THESE TYPES OF SAPS ARE CONSIDERED TO BE APPLICABLE FOR THE MAJORITY OF ACTIVITIES HOWEVER SOME SITES MAY REQUIRE SPECIAL CONSIDERATION.

SHAKER PAD (CATTLE GRID)

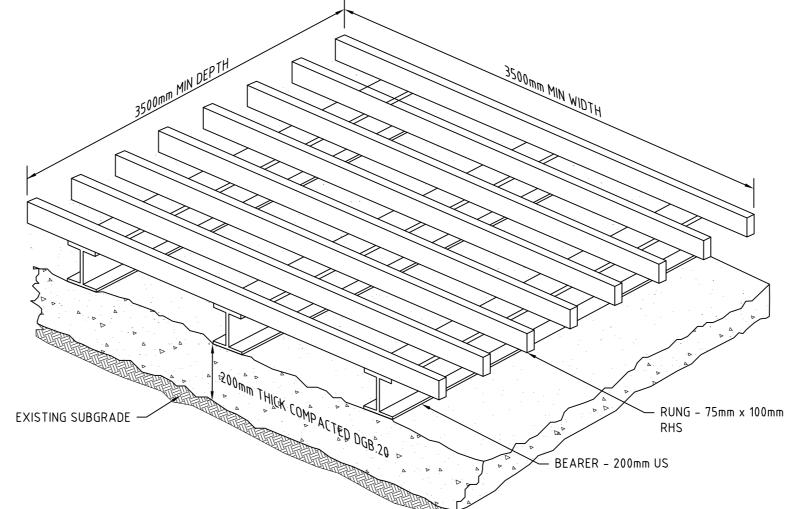
A CORRECTLY DESIGNED AND INSTALLED SHAKER PAD WILL ASSIST IN PREVENTING SEDIMENT TRANSFERE FROM A SITE. ANY STABILISED ACCESS POINT (SAP) CAN BE DESIGNED WITH A SHAKER PAD (COMPULSOPRY IN TYPE II SAP'S)

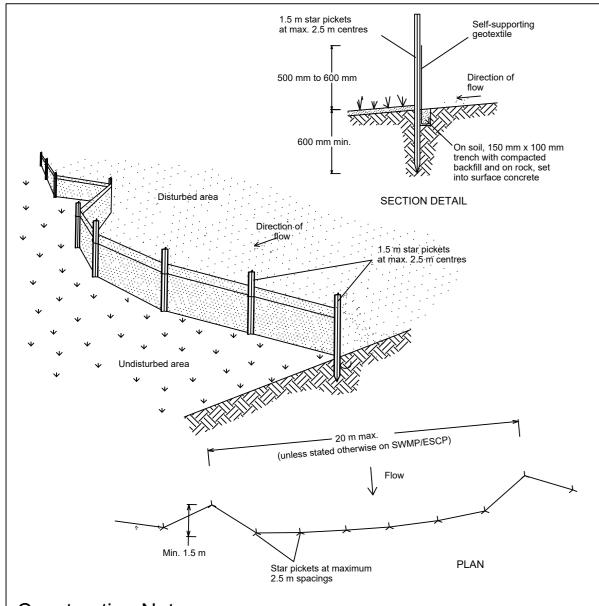
SHAKER PADS CAN BE DESIGNED AND CONSTRUCTED TO ENABLE RE-USE ON FUTURE PROJECTS

THE SHAKER PAD:

- MUST BE DESIGNED AND CERTIFIED BY A PRACTICING STRUCTURAL ENGINEER. THE CERTIFIED DESIGN SHOULD BE SUBMITTED WITH THE RELEVENT APPLICATION.
- CAN BE CONSTRUCTED FROM ANY SUITABLE MATERIAL.
- MUST BE LOCATED ON A SUITABLY PREPARED AND COMPACTED SUB-GRADE/BASE MATERIAL.
- MUST BE SITUATED SUCH THAT THE RUNGS OF THE SHAKER PAD ARE LEVEL WITH THE ADJOINING NATURAL SURFACE.
- MUST BE A MINIMUM OF 3.5m IN LENGTH. MUST BE A MINIMUN OF 3.5m IN WIDTH.
- MUST HAVE CLEAR SPACING BETWEEN RUNGS OF 200 250mm.
- RUNGS MUST HAVE A MAXIMUM WIDTH (BEARING AREA) OF 75mm.
- MUST HAVE A MINIMUM CLEAR DEPTH OF 300mm IE FORM THE ROP OF THE RUNG TO THE FINISHED SUB-GRADE/BASE LEVEL.

THE SHAKER PAD MUST BE PROVIDED WITH SUITABLE BARRIERS AT THE SIDES TO ENSURE THAT ALL TYERS OF VEHICLES LEAVING THE SITE TRAVERSE THE DEVICE.

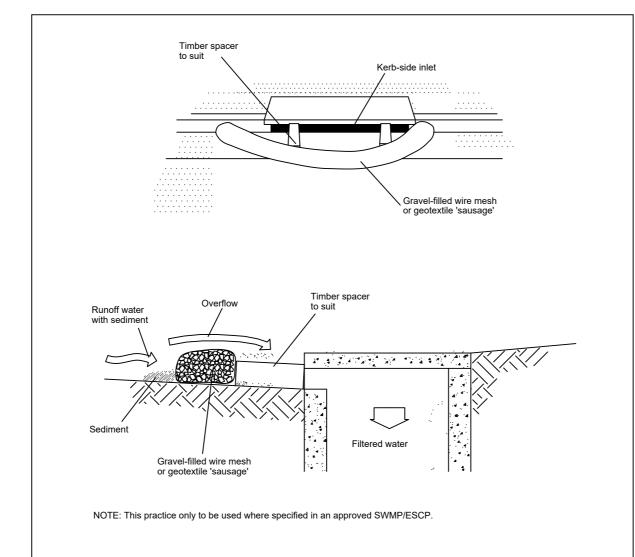




Construction Notes

- 1. Construct sediment fences as close as possible to being parallel to the contours of the site, but with small returns as shown in the drawing to limit the catchment area of any one section.
- The catchment area should be small enough to limit water flow if concentrated at one point to 50 litres per second in the design storm event, usually the 10-year event. 2. Cut a 150-mm deep trench along the upslope line of the fence for the bottom of the fabric to
- be entrenched. 3. Drive 1.5 metre long star pickets into ground at 2.5 metre intervals (max) at the downslope edge of the trench. Ensure any star pickets are fitted with safety caps.
- 4. Fix self-supporting geotextile to the upslope side of the posts ensuring it goes to the base of the trench. Fix the geotextile with wire ties or as recommended by the manufacturer. Only use geotextile specifically produced for sediment fencing. The use of shade cloth for this purpose is not satisfactory.
- 5. Join sections of fabric at a support post with a 150-mm overlap.
- 6. Backfill the trench over the base of the fabric and compact it thoroughly over the geotextile.

SEDIMENT FENCE

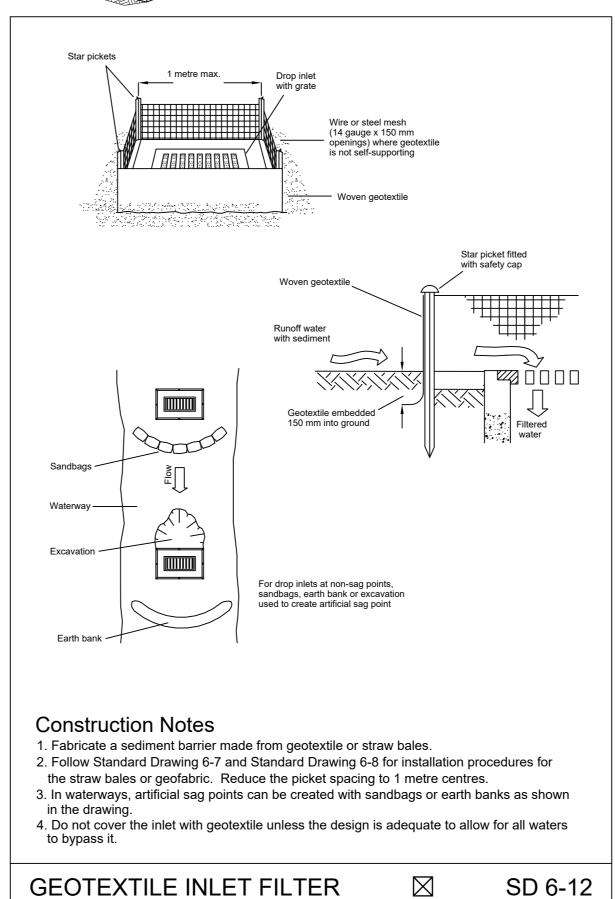


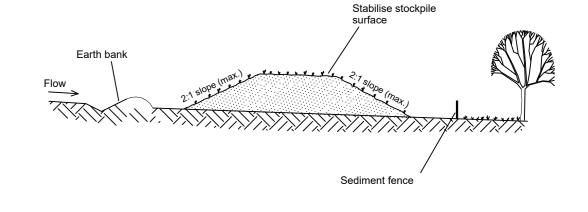
CONSTRUCTION NOTES

PASS BETWEEN.

- 1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS. 2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL WITH 25 mm TO 50 mm GRAVEL.
- 3. FORM AN ELIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400 mm WIDE. 4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST 100 mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
- 5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER. 6. SANDBAGS FILLD WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT

MESH AND GRAVEL INLET FILTER ⊠ SD 6-11



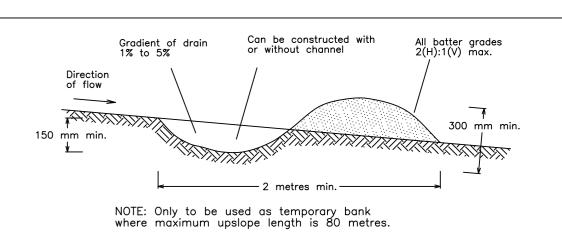


Construction Notes

- 1. Place stockpiles more than 2 (preferably 5) metres from existing vegetation, concentrated
- water flow, roads and hazard areas. Construct on the contour as low, flat, elongated mounds.
- 3. Where there is sufficient area, topsoil stockpiles shall be less than 2 metres in height.
- 4. Where they are to be in place for more than 10 days, stabilise following the approved ESCP or SWMP to reduce the C-factor to less than 0.10.
- 5. Construct earth banks (Standard Drawing 5-5) on the upslope side to divert water around stockpiles and sediment fences (Standard Drawing 6-8) 1 to 2 metres downslope.

STOCKPILES

SD 4-1



Construction Notes

- 1. Build with gradients between 1 percent and 5 percent.
- 2. Avoid removing trees and shrubs if possible work around them.

P1806950

- 3. Ensure the structures are free of projections or other irregularities that could impede water flow.
- 4. Build the drains with circular, parabolic or trapezoidal cross sections, not V
- 5. Ensure the banks are properly compacted to prevent failure.
- 6. Complete permanent or temporary stabilisation within 10 days of construction.

EARTH BANK (LOW FLOW) —> — SD 5-5

REVISION

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	DRAWING TITLE	

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PROJECT MANAGER | CLIENT

RESIDENTIAL DEVELOPMENT CONCEPT STORMWATER DRAINAGE PLAN 351-353 NEW SOUTH HEAD RD, DOUBLE BAY, NSW

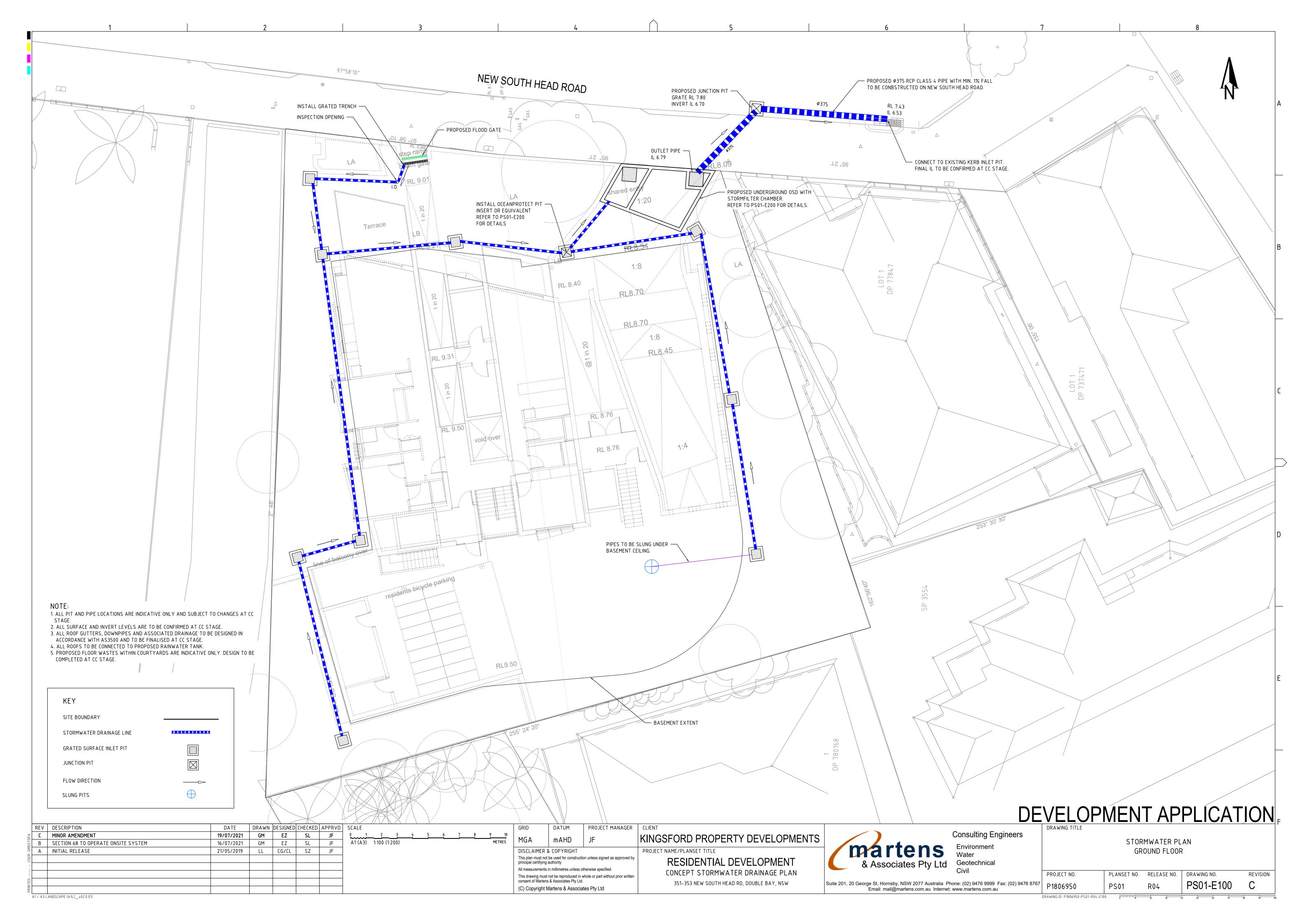


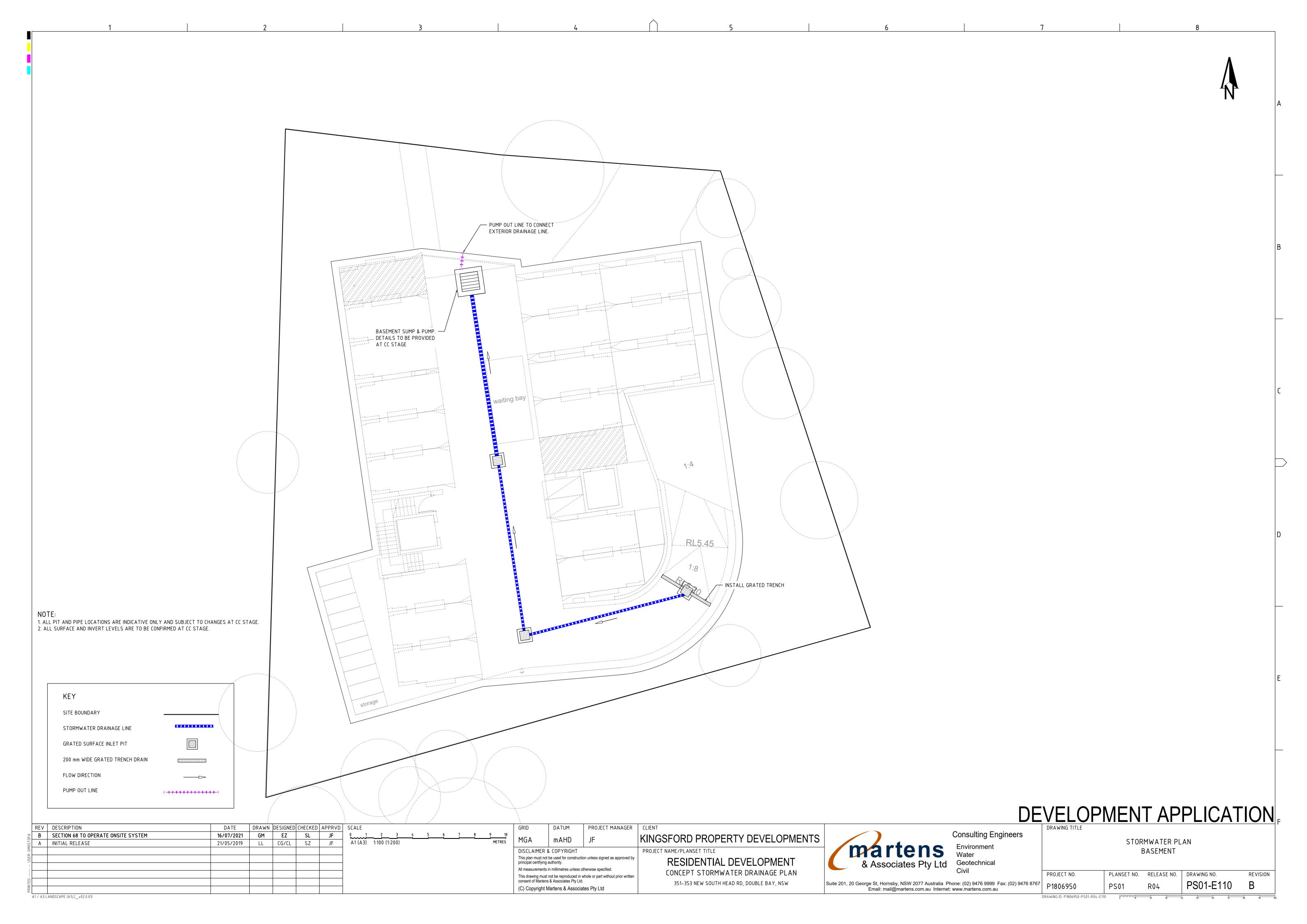
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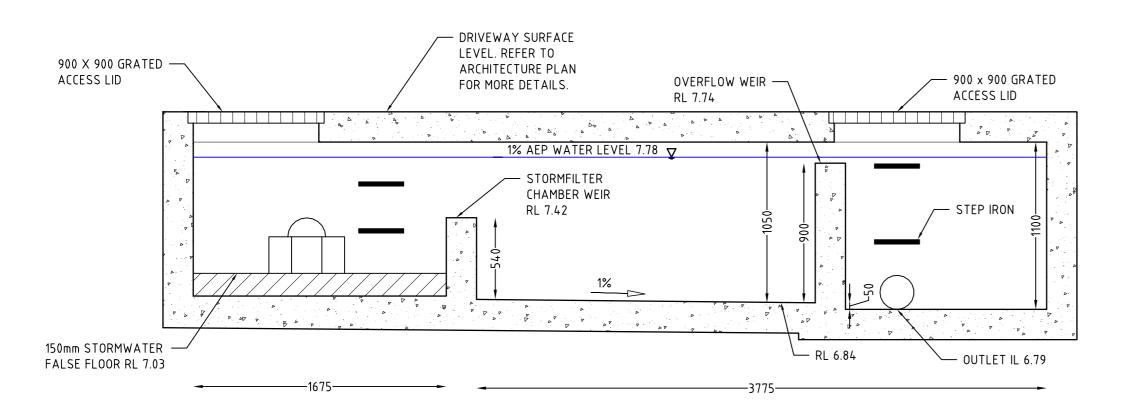
SEDIMENT AND EROSION CONTROL DETAILS PROJECT NO. RELEASE NO. DRAWING NO. PS01-B310

DRAWING ID: P1806950-PS01-R04-B310

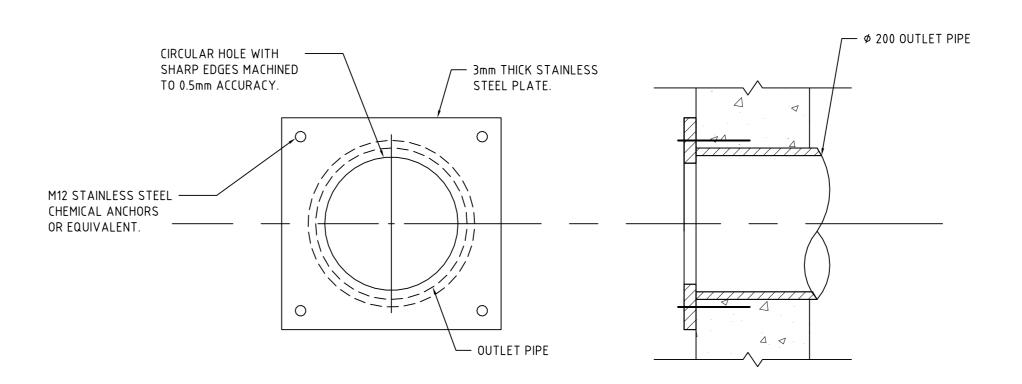
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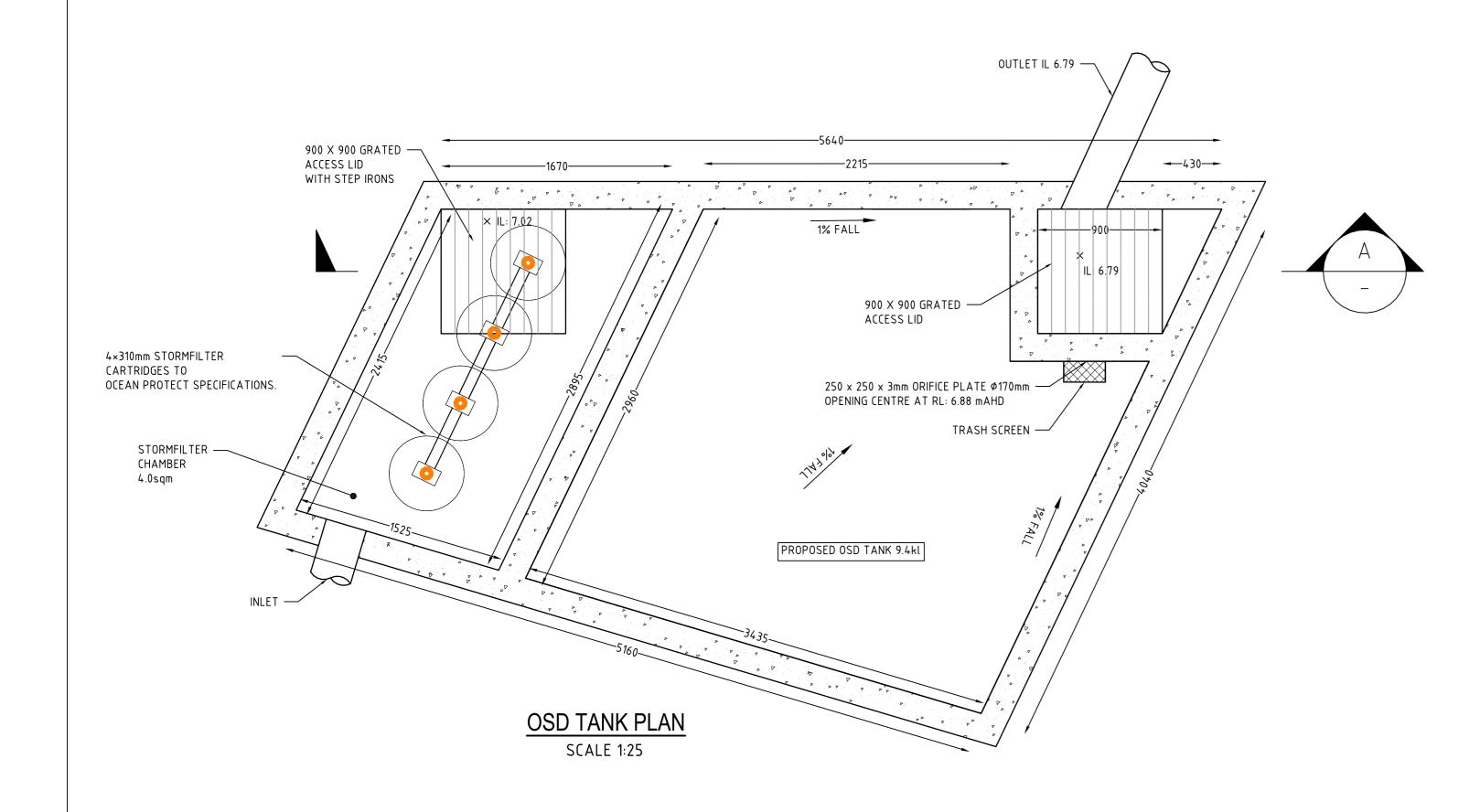
OSD TANK SECTION A SCALE: 1:25



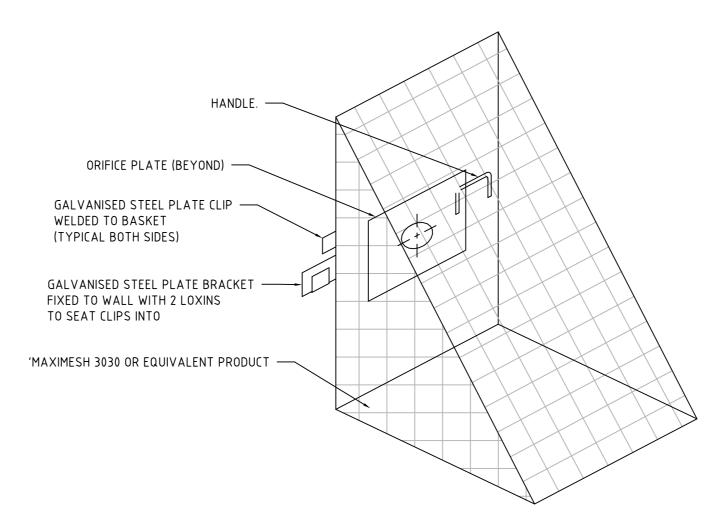
ORIFICE PLATE DETAIL NOT TO SCALE



CONFINED SPACE WARNING SIGN NOT TO SCALE



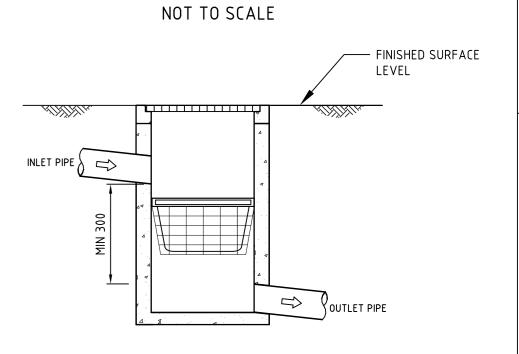
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TRASH SCREEN DETAIL NOT TO SCALE



OSD WARNING SIGN



OCEANGUARD CONFIGURATION

DEVELOPMENT APPLICATION

REV	DESCRIPTION	DATE	DRAWN	DESIGNED	CHECKED	APPRVD	SCALE	GRID	DATUM	PROJECT MANAGER	CLIENT		
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