Our Reference: NSW211526 Your Reference: HI21429

26 May 2023

Health Infrastructure C/- Turner & Townsend Level 21, 363 George Street Sydney NSW 2000

Attention: Adam Mardini

Dear Adam

Re: Nepean Hospital, Child and Adolescent Mental Health Redevelopment – Review of Environmental Factors – Civil Works – R02

The REF works associated with the Civil works include:

- In-ground stormwater network including water quality treatment devices to service the new building and external areas
- Site regrading and pavement works external to the building envelope, including proposed parking bays and access pathways at the eastern end of the building
- Demolition of the existing building slabs and minor regrading below the building envelope to level the undercroft area and generally tie in with existing surrounding levels.

The attached plan shows the proposed stormwater and civil works.

The civil engineering components of the works will be designed in accordance with the following Australian Standards and guidelines:

- Australian Rainfall & Runoff 2019
- AS/NZS 3500.3:2018 Plumbing and Drainage: Stormwater Drainage
- Managing Urban Stormwater, Soils and Construction, Volume 1, 4th Edition, Landcom, March 2004
- Penrith City Council Development Control Plan 2014

Should you require any additional information please do not hesitate to contact the undersigned.

Yours faithfully, ACOR Consultants Pty Ltd

Russell

Caitlin Russell Civil Engineer

ACOR Consultants Pty Ltd (ACN 079 306 246) (ABN 40 079 306 246)



Suite 2, Level 1 33 Herbert Street ST LEONARDS NSW 2065

PO Box 292 ST LEONARDS NSW 1590

T 02 9438 5098 F 02 9438 5398

ENGINEERS

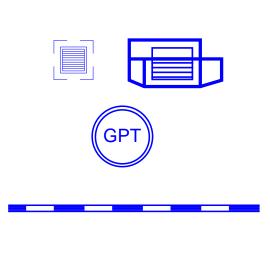
MANAGERS

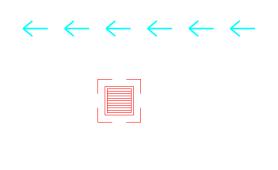
INFRASTRUCTURE PLANNERS

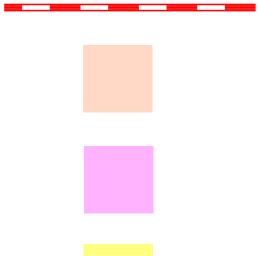
DEVELOPMENT CONSULTANTS



LEGEND







PROPOSED STORMWATER PITS PROPOSED GROSS POLLUTANT TRAP

OVERLAND FLOW PATH

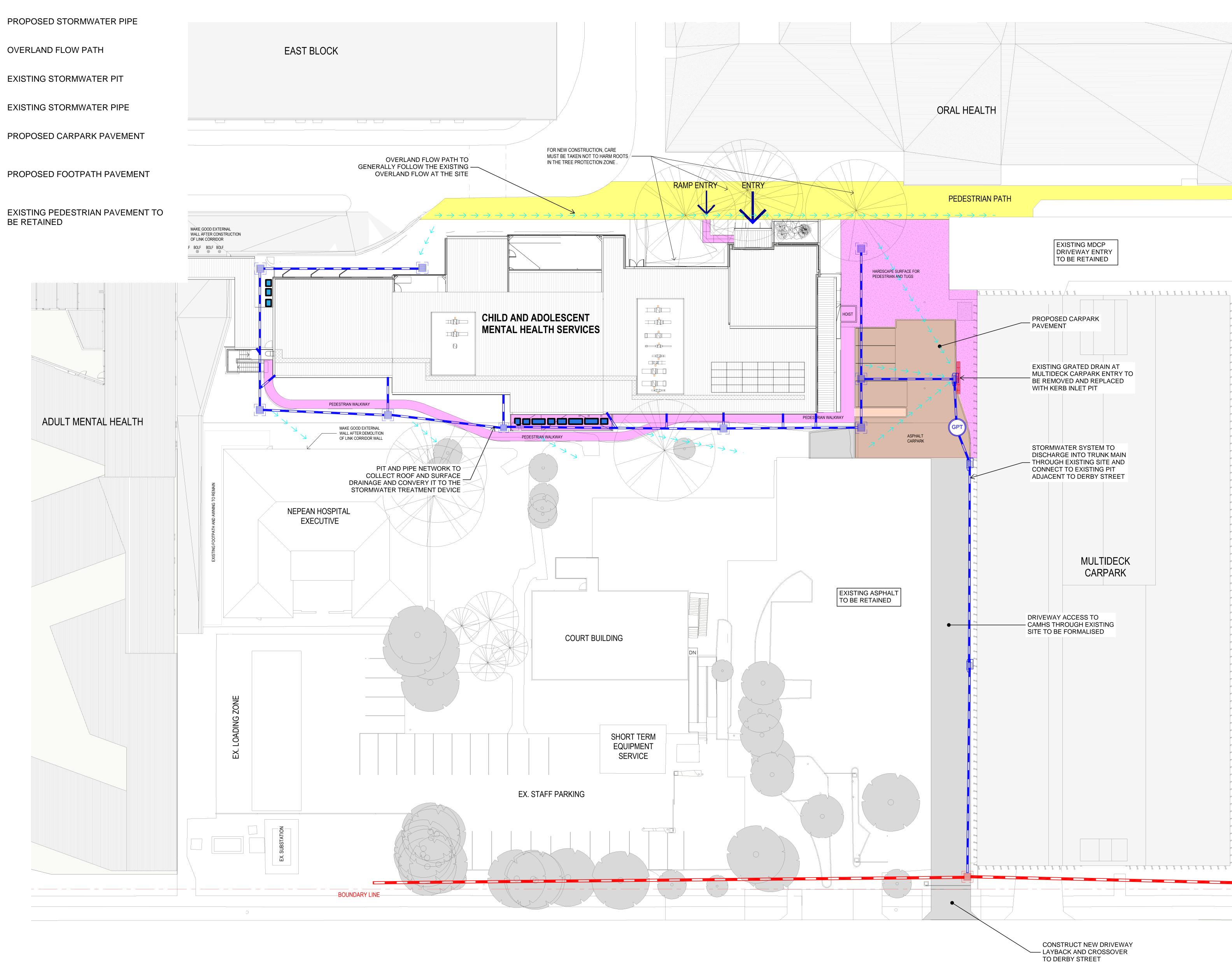
EXISTING STORMWATER PIT

EXISTING STORMWATER PIPE

PROPOSED CARPARK PAVEMENT

PROPOSED FOOTPATH PAVEMENT

EXISTING PEDESTRIAN PAVEMENT TO **BE RETAINED**



DERBY STREET

		NOTE ISSUE DATE FOR A 7.04.22 REVIEW OF ENVIRONMENTAL FACTOR B 26.05.23 REVIEW OF ENVIRONMENTAL FACTOR B 26.05.23
		ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE TRADE PACKAGE COVER SHEET AND NOTES
BOUNDARY LINE		CLIENT WINTERSTRUCTURE HEALTH INFRASTRUCTURE MANAGING CONTRACTOR
	SOMERSET STREET	PROJECT MANAGERS CBRE TEL 02 9333 3333 ARCHITECT BVN ARCHITECTURE TEL 02 8297 7200 STRUCTURE / CIVIL ACOR TEL 02 9438 5098 MECHANICAL ARUP TEL 02 9320 9320 ELECTRICAL / COMMS JHA TEL 02 9437 1000 HYDRAULIC ARUP TEL 02 9320 9320 FIRE ENGINEERING ARUP TEL 02 9320 9320 FIRE ENGINEERING ARUP TEL 02 9320 9320 LANDSCAPE ARCADIA TEL 02 8571 2900 BCA / DDA BLACKETT MAGUIRE + GOLDSMIT TEL 02 9211 7777
		PROJECT NEPEAN HOSPITAL - STAGE 2 DERBY ST KINGSWOOD NSW 2747 NEPEAN ACOR PROJECT NUMBER NSW211526 DRAWING KEY
		TRUE NORTH PROJECT NORTH C

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

- E1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH THE ENGINEERING PLANS, AND ANY OTHER PLANS OR WRITTEN INSTRUCTIONS THAT MAY BE ISSUED AND RELATING TO DEVELOPMENT AT THE SUBJECT SITE.
- E2. CONTRACTORS TO ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE UNDERTAKEN AS INSTRUCTED IN THIS SPECIFICATION AND CONSTRUCTED FOLLOWING THE GUIDELINES OF "MANAGING URBAN STORMWATER SOILS AND CONSTRUCTION", DEPT OF HOUSING, 2004 (BLUE BOOK).
- E3. ALL BUILDERS AND SUB-CONTRACTORS WILL BE INFORMED OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION AND POLLUTION TO DOWNSLOPE LANDS AND WATERWAYS.

CONSTRUCTION SEQUENCE

- E4. THE SOIL EROSION POTENTIAL ON THIS SITE SHALL BE MINIMISED. HENCE WORKS SHALL BE UNDERTAKEN IN THE FOLLOWING SEQUENCE :
- a. INSTALL SEDIMENT FENCES, TEMPORARY CONSTRUCTION EXIT AND
- SANDBAG KERB INLET SEDIMENT TRAP. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH b THE ENGINEERING PLANS. PHASE DEVELOPMENT SO THAT LAND
- DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.

EROSION CONTROL

- E5. DURING WINDY CONDITIONS, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
- E6. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.

FENCING

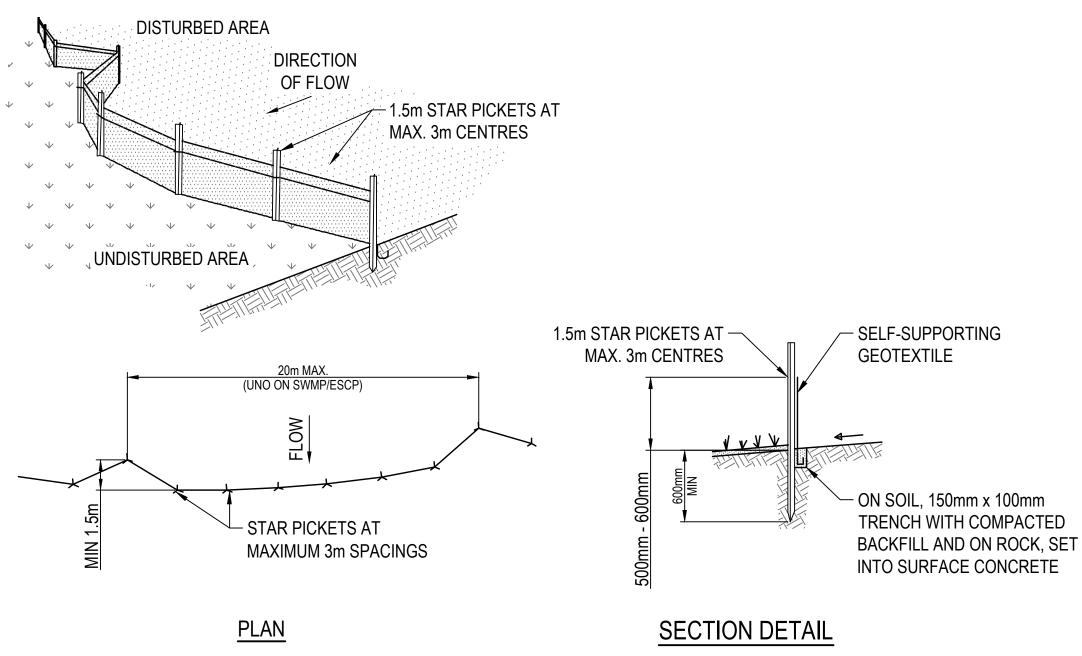
- E7. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.
- E8. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.
- E9. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.
- E10. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

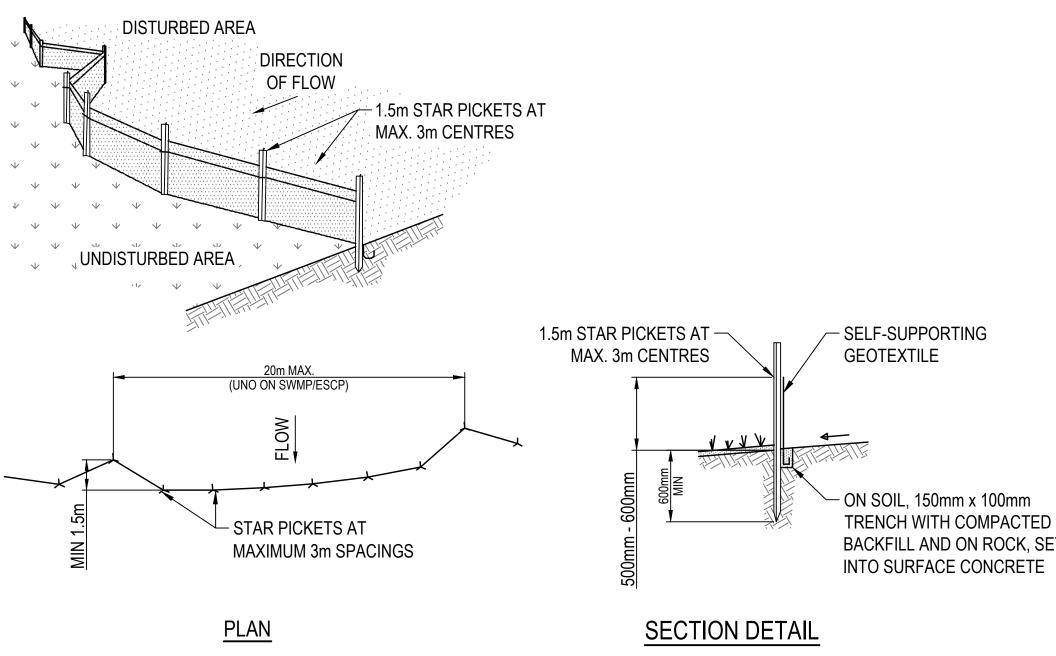
OTHER MATTERS

- E11. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.
- E12. RECEPTORS FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER ARE TO BE EMPTIED AS NECESSARY. DISPOSAL OF WASTE SHALL BE IN A MANNER APPROVED BY THE SITE SUPERINTENDENT.

SITE INSPECTION & MAINTENANCE

E13. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE THAT THEY OPERATE EFFECTIVELY. REPAIR AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED.





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· · · · · · · · · · · · · · · · · · ·	RUNOFF
	GAP BETW

CONSTRUCTION NOTES

CONSTRUCT SEDIMENT FENCE AS CLOSE AS POSSIBLE TO PARALLEL TO CONTOURS OF THE SITE.

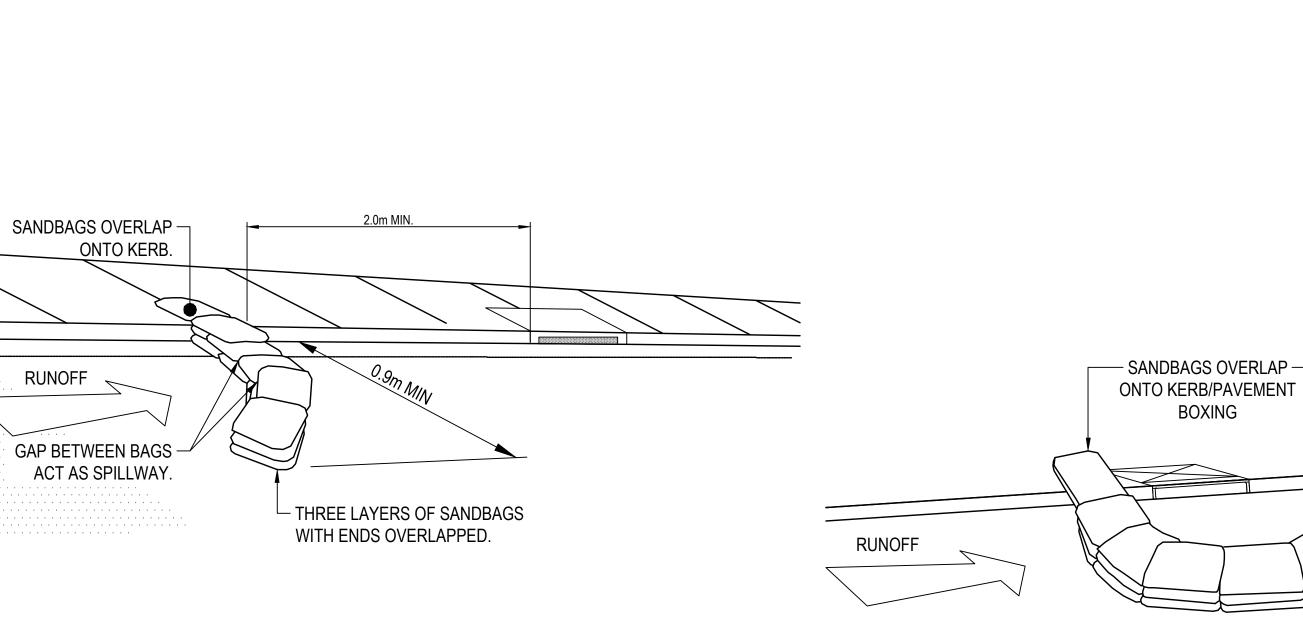
RIVE 1.5m LONG STAR PICKETS INTO GROUND, 3 METRES APART. A 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE

R THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.

CKFILL TRENCH OVER BASE OF FABRIC. SELF-SUPPORTING GEOTEXTILE TO UPSLOPE SIDE OF POSTS WITH

RE TIES OR AS RECOMMENDED BY GEOTEXTILE MANUFACTURER. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150mm OVERLAP.

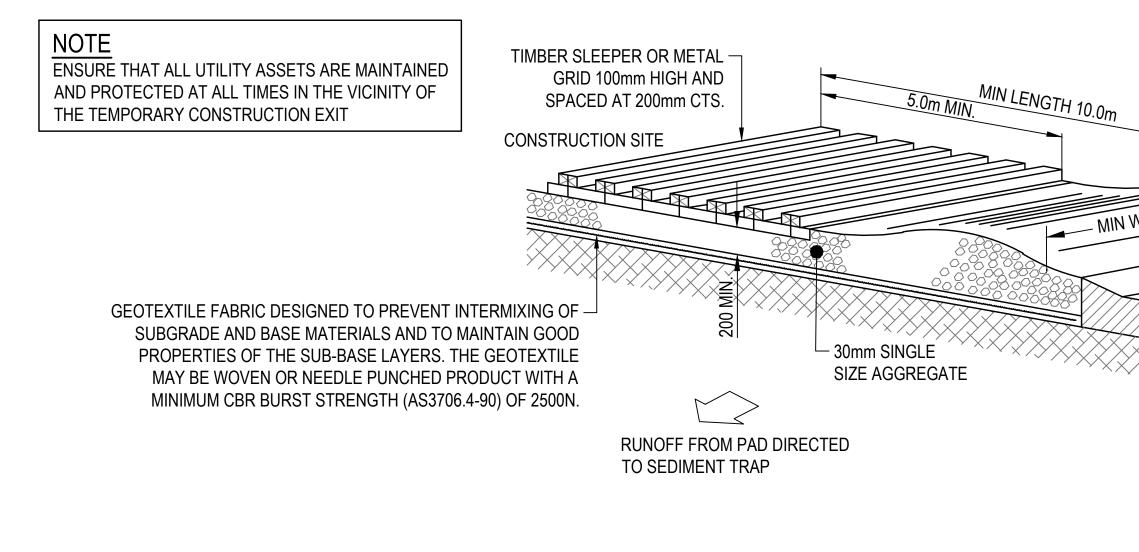
SEDIMENT CONTROL FENCE N.T.S.



SANDBAG SEDIMENT TRAP - AT ON GRADE PIT

SANDBAG SEDIMENT TRAP - AT KERB SAG PIT

SANDBAG SEDIMENT TRAP. N.T.S.

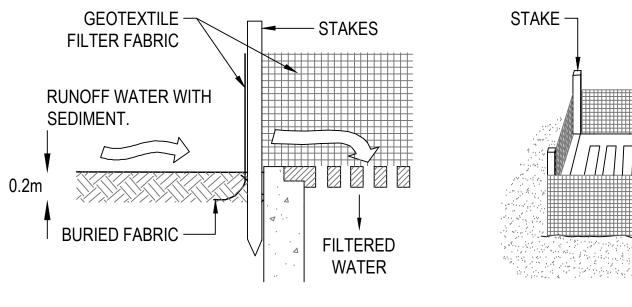


CONSTRUCTION NOTES

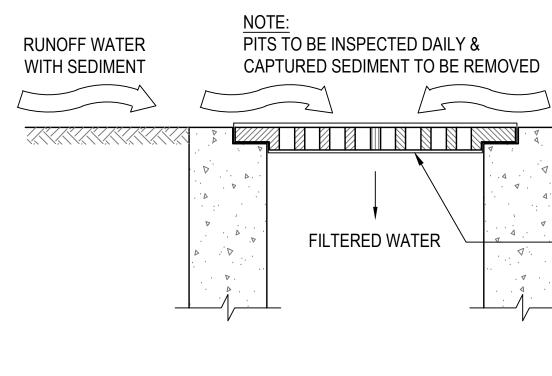
- STRIP TOPSOIL AND LEVEL SITE. COMPACT SUBGRADE.
- COVER AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
- CONSTRUCT 200mm THICK PAD OVER GEOTEXTILE USING 30mm SINGLE SIZE AGGREGATE.
- CONSTRUCT HUMP IMMEDIATELY WITHIN BOUNDARY TO DIVERT WATER TO A SEDIMENT FENCE OR OTHER SEDIMENT TRAP WHERE THE SEDIMENT IS COLLECTED AND REMOVED.

MAINTENANCE NOTES THE EXIT SHALL BE MAINTAIN TRACKING OR FLOWING OF SE SITE. THIS MAY REQUIRE PERI ADDITIONAL GRAVEL AS COND CLEANOUT OF ANY MEASURE SEDIMENT SPILLED, DROPPED CONSTRUCTION SITE MUST BE

TEMPORARY STABILISED CONSTRUCTION EXIT N.T.S.



GEOTEXTILE FILTER FABR DROP INLET SEDIMENT TH N.T.S.





RUNOFF THREE LAYERS OF SANDBAGS WITH ENDS OVERLAPPED.

	ACCOR Consultants Pty Ltd State
m BERM 0.3m	COPYRIGHT of this design and plan is the property of ACOR Consultants Pty Ltd, ACN 079 306 246 ABN 40 079 306 246, all rights reserved. It must not be used, modified, reproduced or copied wholly or in part without written permission from ACOR Consultants Pty Ltd.
IIN WIDTH 4.0M	
EXISTING ROADWAY	NOTE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCEMENT OF WORK OR PREPARATION OF SHOP DRAWINGS. DO NOT SCALE THIS DRAWING ISSUE DATE FOR A 7.04.22 REVIEW OF ENVIRONMENTAL FACTORS B 26.05.23 REVIEW OF ENVIRONMENTAL FACTORS Image: Draw in the image of the ima
ED IN A CONDITION WHICH PREVENTS	
EDIMENT OFF THE CONSTRUCTION ODIC TOP DRESSING WITH DITIONS DEMAND AND REPAIR AND/OR S USED TO TRAP SEDIMENT. ALL , WASHED OR TRACKED OFF THE E REMOVED IMMEDIATELY.	NOTE: ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE TRADE PACKAGE COVER SHEET AND NOTES
SELF-SUPPORTING GEOTEXTILE	
STAKE	
GEOTEXTILE FILTER FABRIC	CLIENT
	PROJECT MANAGERS CBRE
<u>RIC</u> RAP.	TEL 02 9333 3333 ARCHITECT BVN ARCHITECTURE TEL 02 8297 7200 STRUCTURE / CIVIL ACOR TEL 02 9438 5098 MECHANICAL
	ARUP TEL 02 9320 9320 ELECTRICAL / COMMS
RUNOFF WATER WITH SEDIMENT	JHA TEL 02 9437 1000 HYDRAULIC
	ARUP TEL 02 9320 9320 FIRE ENGINEERING ARUP
· · ↓ · ~	TEL 02 9320 9320 LANDSCAPE ARCADIA
NON-WOVEN GEOTEXTILE FILTER FABRIC WIRE TIED TO GRATE IN ALL 4 CORNERS & CENTRE	TEL 02 8571 2900 BCA / DDA BLACKETT MAGUIRE + GOLDSMITH TEL 02 9211 7777
E TRAFFIC	PROJECT NEPEAN HOSPITAL - STAGE 2 DERBY ST KINGSWOOD NSW 2747
	NEPEAN ACOR PROJECT NUMBER NSW211526
	DRAWING KEY
	TRUE PROJECT NORTH ONRTH
	SCALE @A0 DO NOT SCALE
	DRAWN BY: - CR CHECKED BY: - GL DESIGNED BY: - CR APPROVED BY: - GL STATUS FOR APPROVAL
	DRAWING CHILD AND ADOLESCENT MENTAL HEALTH DETAILS - SHEET 1