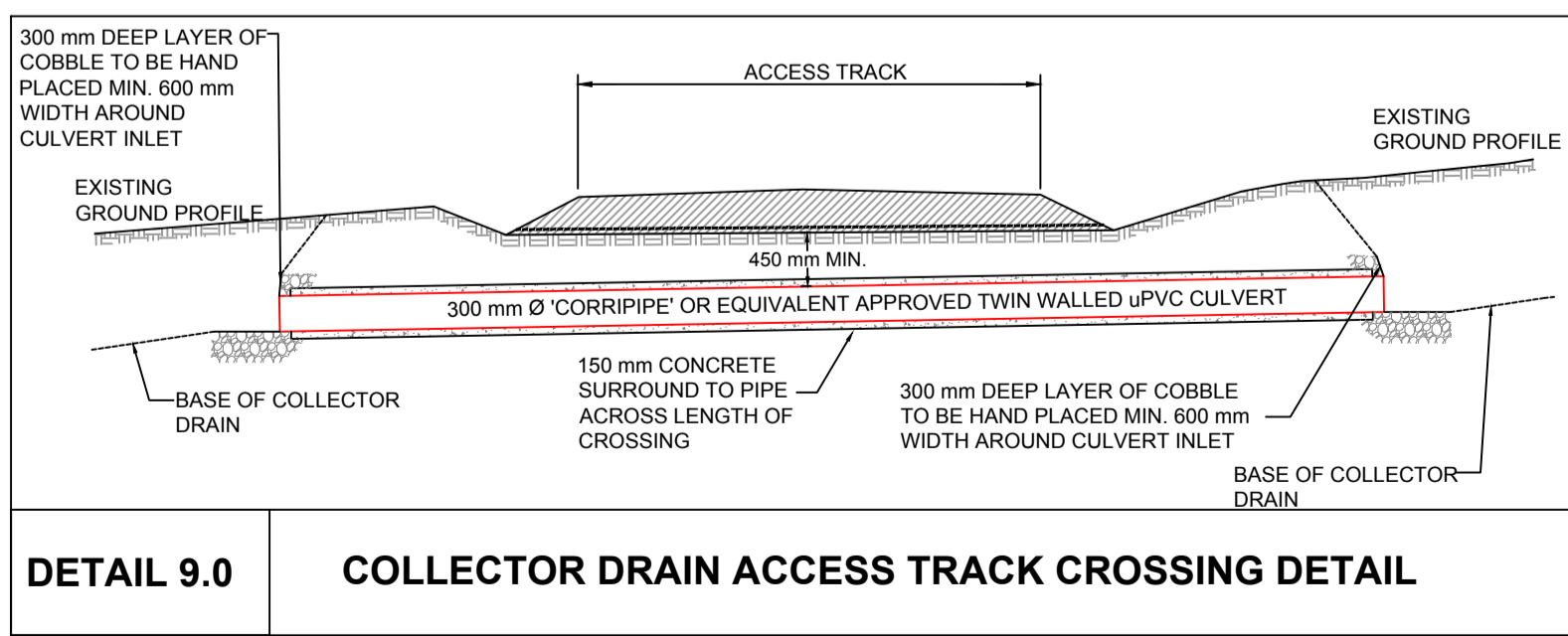
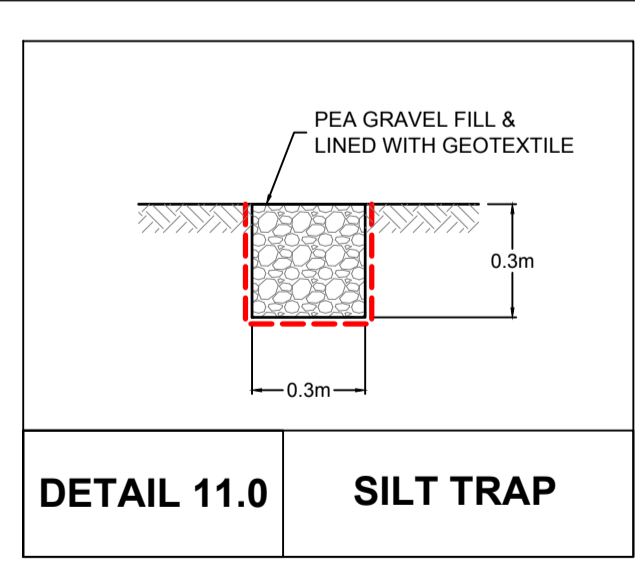
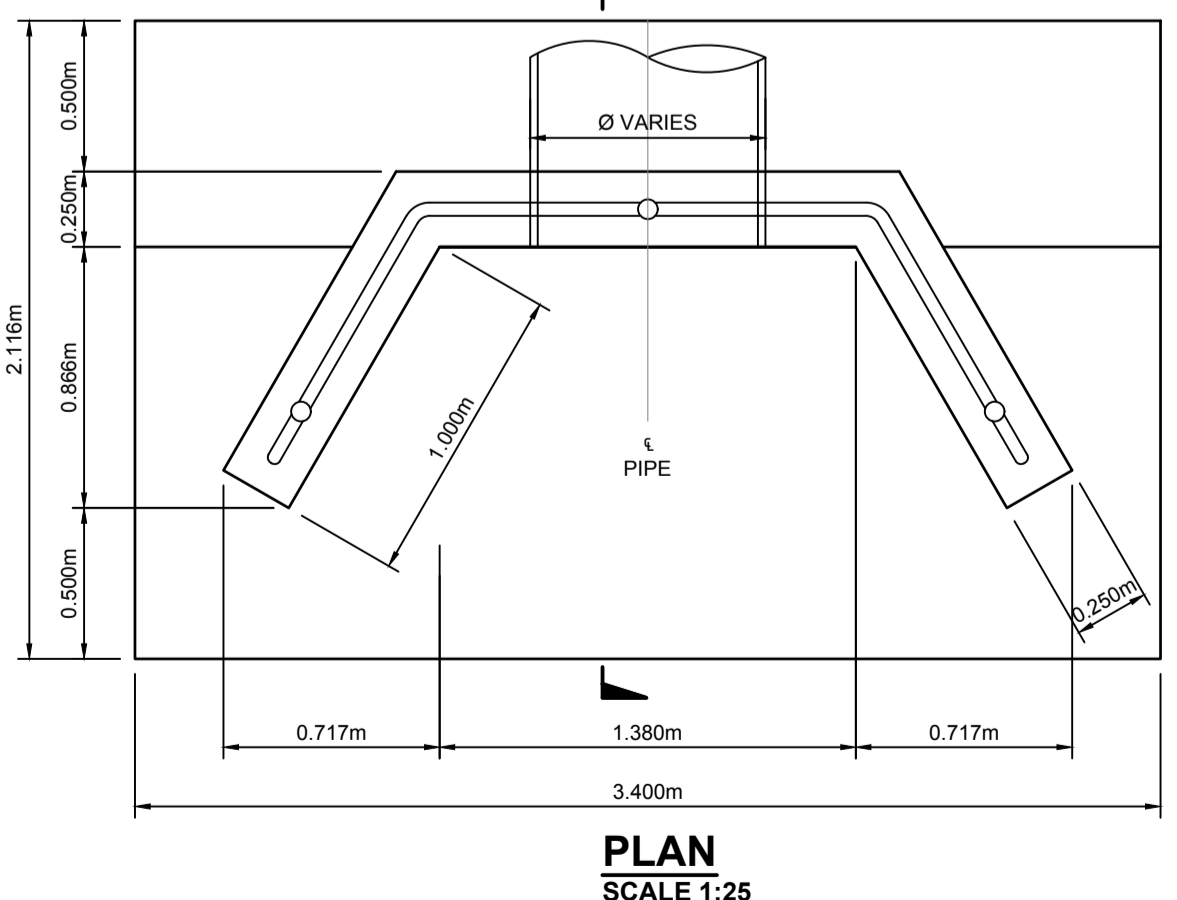
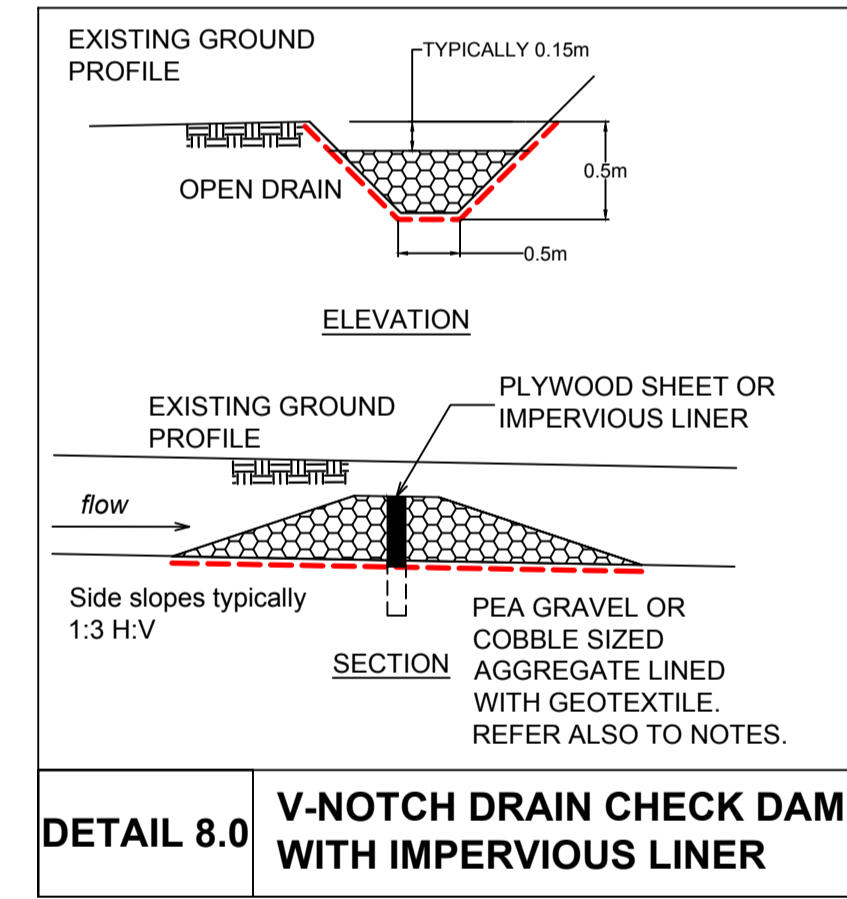
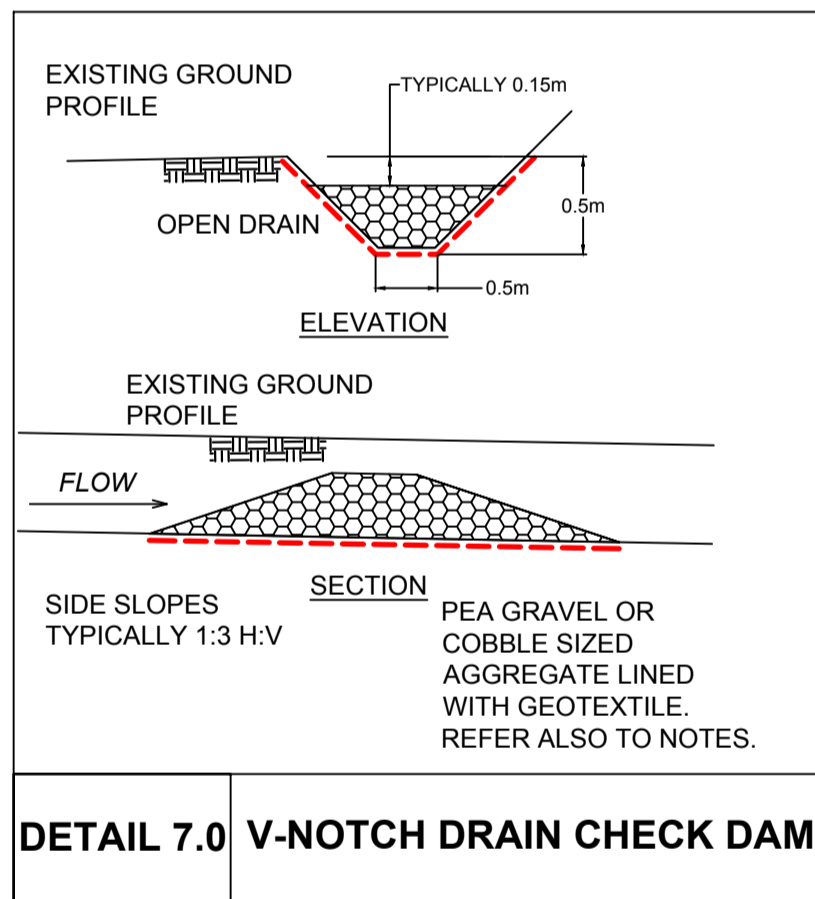
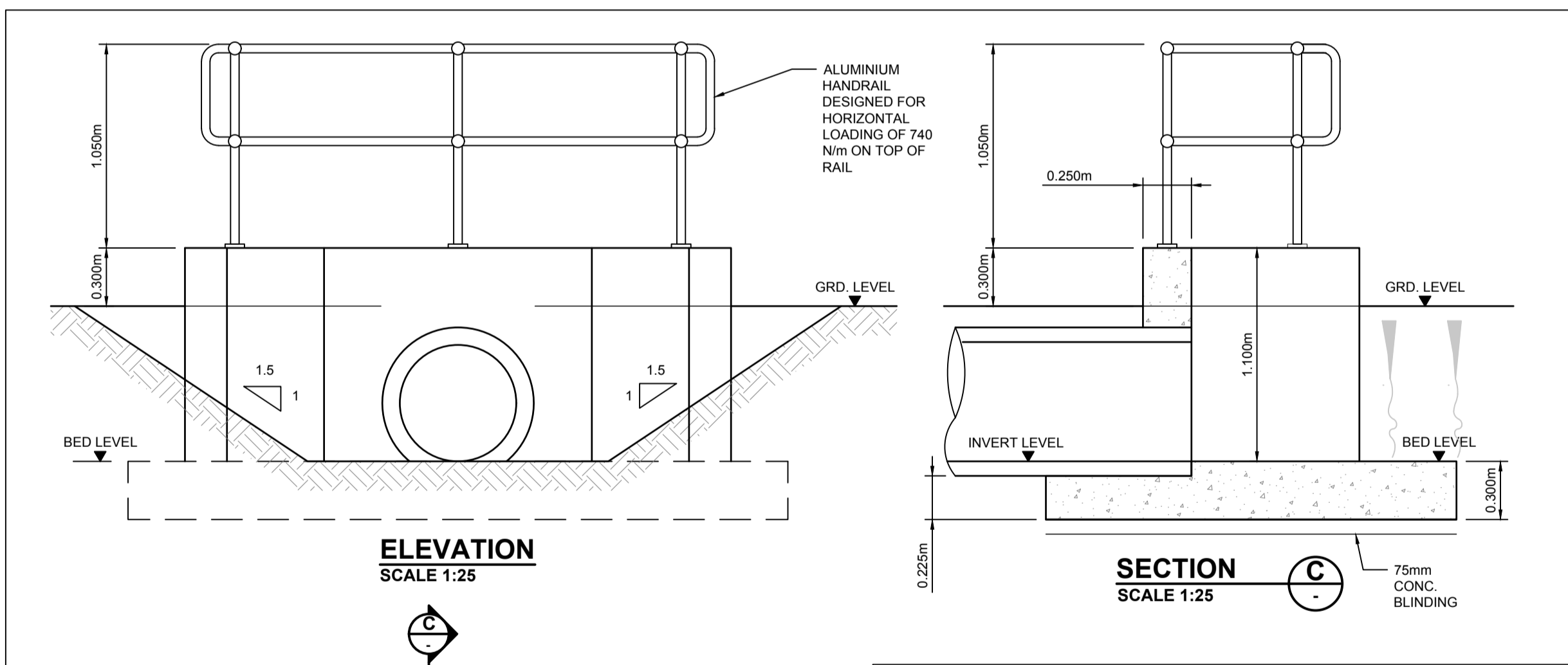
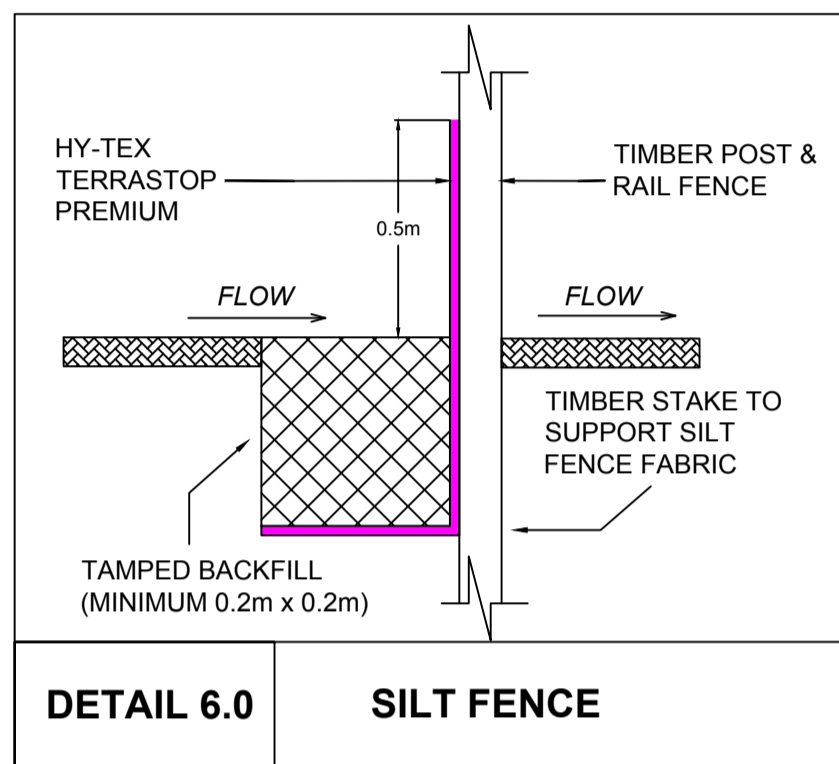
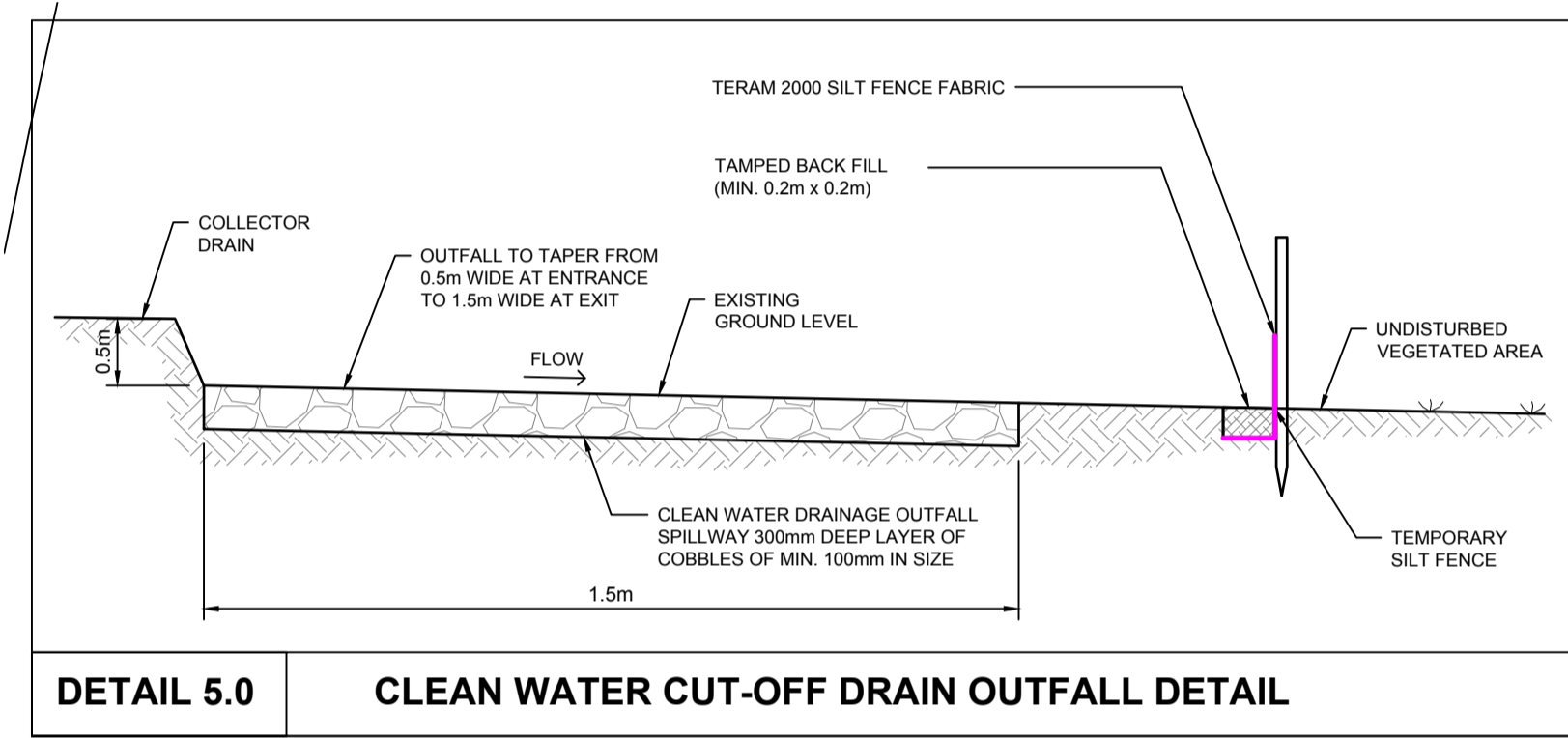
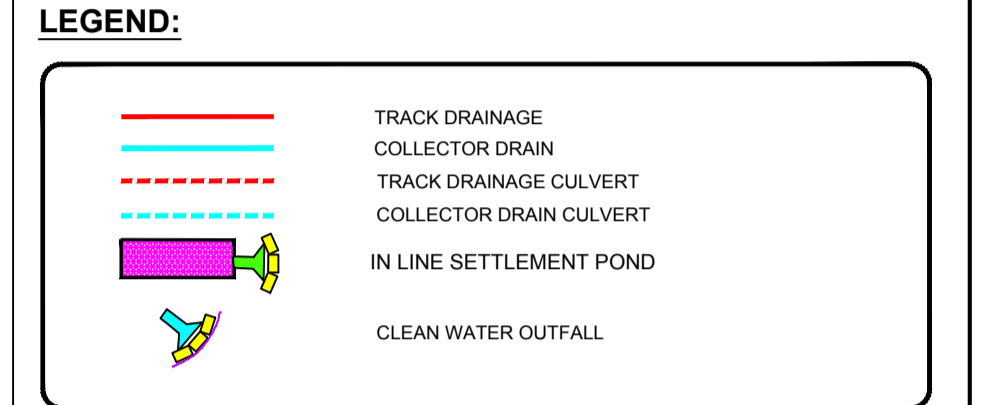


- GENERAL DRAINAGE NOTES:**
- ALL DRAINAGE SUBJECT TO MICRO-SITING AND OPTIMISATION ON SITE.
 - LOCATIONS OF COLLECTOR DRAINS, CHECK DAMS, CULVERTS, SWALES, SETTLEMENT PONDS AND BUFFERED OUTFALL LEVEL SPREADERS ARE SHOWN AS INDICATIVE AND MAY BE CHANGED TO SUIT THE REQUIREMENTS OF THE LOCAL TOPOGRAPHY.
 - DOWN GRADIENT SLOPE BELOW BUFFERED OUTFALL LEVEL SPREADER ONTO WHICH WATER WILL DISSIPATE TO HAVE A GRADE <math>< 6\%</math>.
 - SUPERVISING HYDROLOGIST OR ENVIRONMENTAL CLERK OF WORKS / ENVIRONMENTAL SCIENTIST TO OVERSEE INSTALLATION OF DRAINAGE FEATURES.
 - ALL DRAINAGE FEATURES SUBJECT TO INSPECTION & MAINTENANCE PLAN.
 - LAYOUT SHOWN IS SLIGHTLY OFFSET FOR SCALE PURPOSES. ALL DRAINAGE SHALL BE INSTALLED AS CLOSE TO ACCESS TRACKS/ROADS AS POSSIBLE.
 - EROSION PROTECTION TO PREVENT SCOUR TO BE PROVIDED IN DRAINAGE CHANNELS WITH A CHANGE IN DIRECTION <math>< 130^\circ</math> WHERE THE FALL EXCEEDS 1:40 AND AT ALL ROAD CROSSING CULVERT LOCATIONS, OR WHERE OTHERWISE DIRECTED BY THE SITE ENGINEER.
 - TEMPORARY EROSION PROTECTION MAY BE REQUIRED UNTIL VEGETATION BECOMES ESTABLISHED (COIR MATTING OR SIMILAR).
 - CONSTRUCTION PROCESSES THAT POSE RISK OF ACTIVATION OF SEDIMENT LADEN RUN-OFF TO BE HALTED DURING PERIODS OF EXTREME RAINFALL. NO EXCAVATION TO BE CARRIED OUT IN ADVANCE OF FORECASTED HEAVY RAINFALL.
 - MINIMISE STOCKPILING OF MATERIAL AND LOCATE ESSENTIAL STOCKPILES OUTSIDE BUFFER ZONES AND AS FAR AWAY AS POSSIBLE FROM WATERCOURSES.
 - MINIMUM 10 m BUFFER SHALL BE GIVEN BETWEEN SETTLEMENT POND / BUFFERED OUTFALL / LEVEL SPREADER OUTLET & ANY WATERCOURSE.



REV	DATE	REVISION DESCRIPTION	DRN	PROD	VER	APP
0	13/06/2018	ISSUED FOR PLANNING	RK	RMG	DC	AD

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PURPOSE OF ISSUE - PRELIMINARY UNLESS INDICATED

CLIENT APPROVAL PLANNING TENDER CONSTRUCTION AS-BUILT

CLIENT: ESB WIND DEVELOPMENT LTD AND BORD NA MONA POWERGEN LTD

PROJECT: TIMAHOE NORTH SOLAR PROJECT

CONTRACT:

DRAWING TITLE: DRAINAGE DETAILS

PRODUCTION UNIT: CIVIL & ENVIRONMENTAL ENGINEERING

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DRAWN	PRODUCED	VERIFIED	APPROVED	APPROVAL DATE
R KELLY	R McGowan	D. Cody	A. Downey	13/06/2018

CLIENT REF: NO. OF SHEETS: 1 SIZE: A1 SCALE: N.T.S.

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