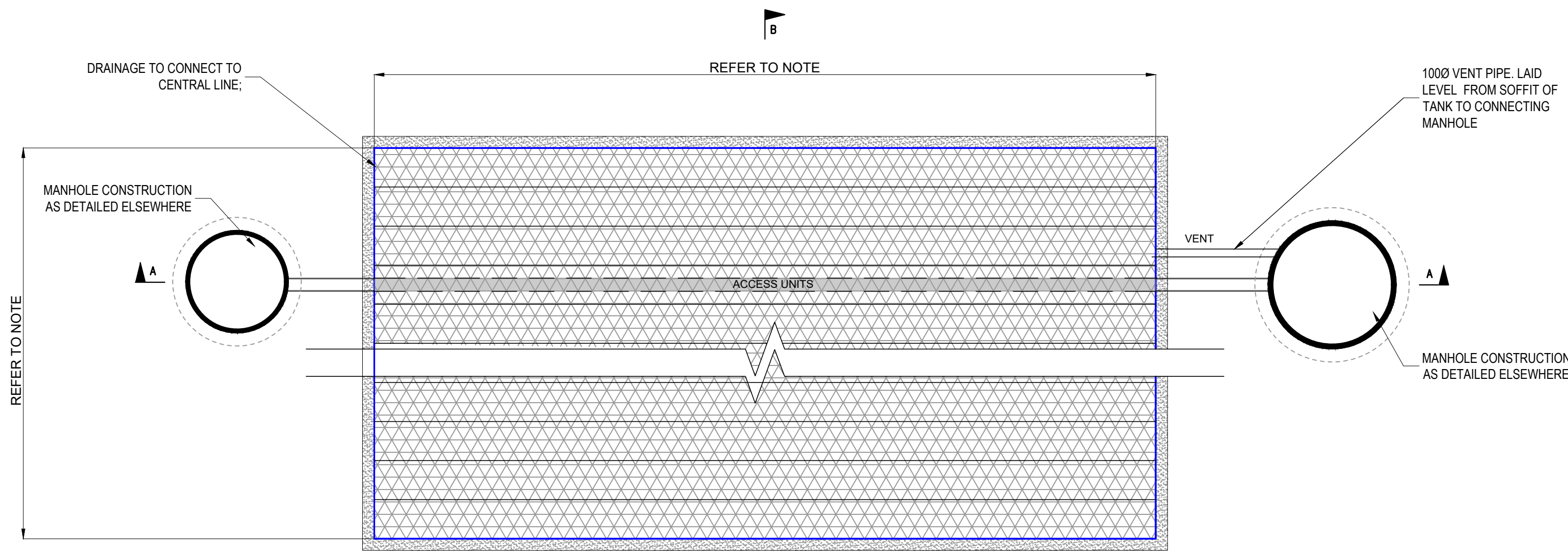
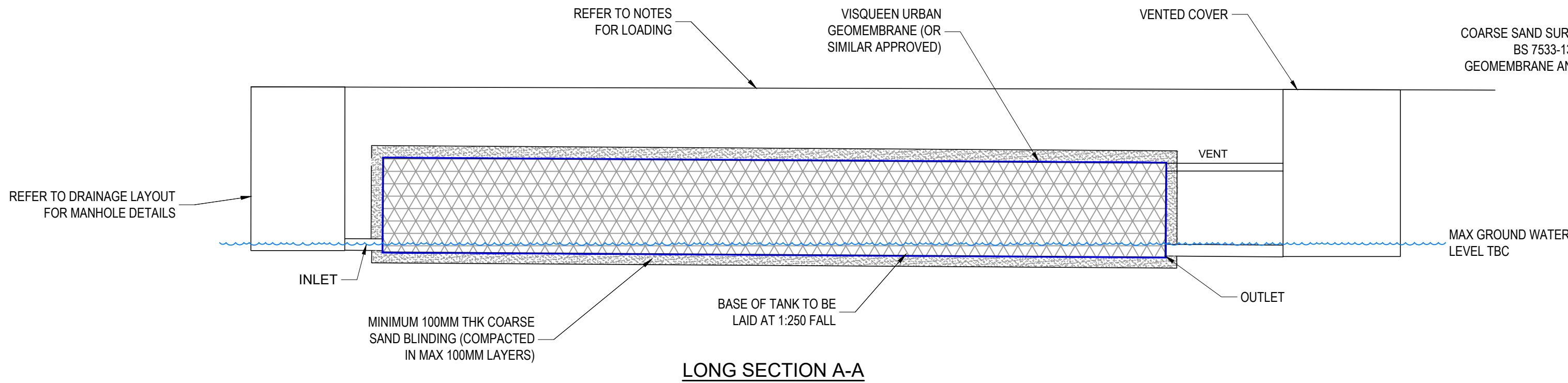




TYPICAL ATTENUATION
TANK PLAN



LONG SECTION A-A

CURRENT DESIGN ASSUMPTIONS

DESIGN BASED ON POLYPIPE PSM1a 1000mm L X 500mm W X 400mm D

TANK IS LOCATED UNDER ASPHALT CAR PARK

THE MANUFACTURER WILL NEED TO CONFIRM THAT THE TANK HAS SUFFICIENT STRENGTH FOR THIS LOCATION IN ACCORDANCE WITH CIRIA C680.

ANTICIPATED LOADING - LIGHT VEHICLE WITH OCCASIONAL HGV LOADING

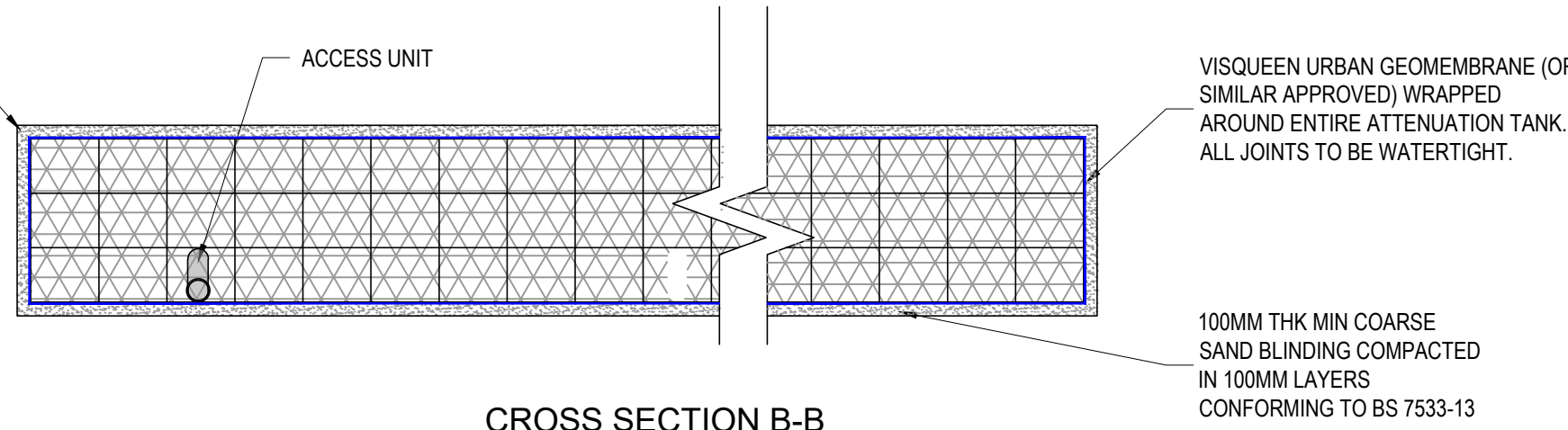
MAX GROUND LEVEL IS APPROX. 110.14m AOD
MIN GROUND LEVEL IS APPROX. 110.04m AOD

INVERT LEVEL OF INLET PIPES - 108.63mm
INVERT LEVEL OF OUTLET PIPE - 108.60mm

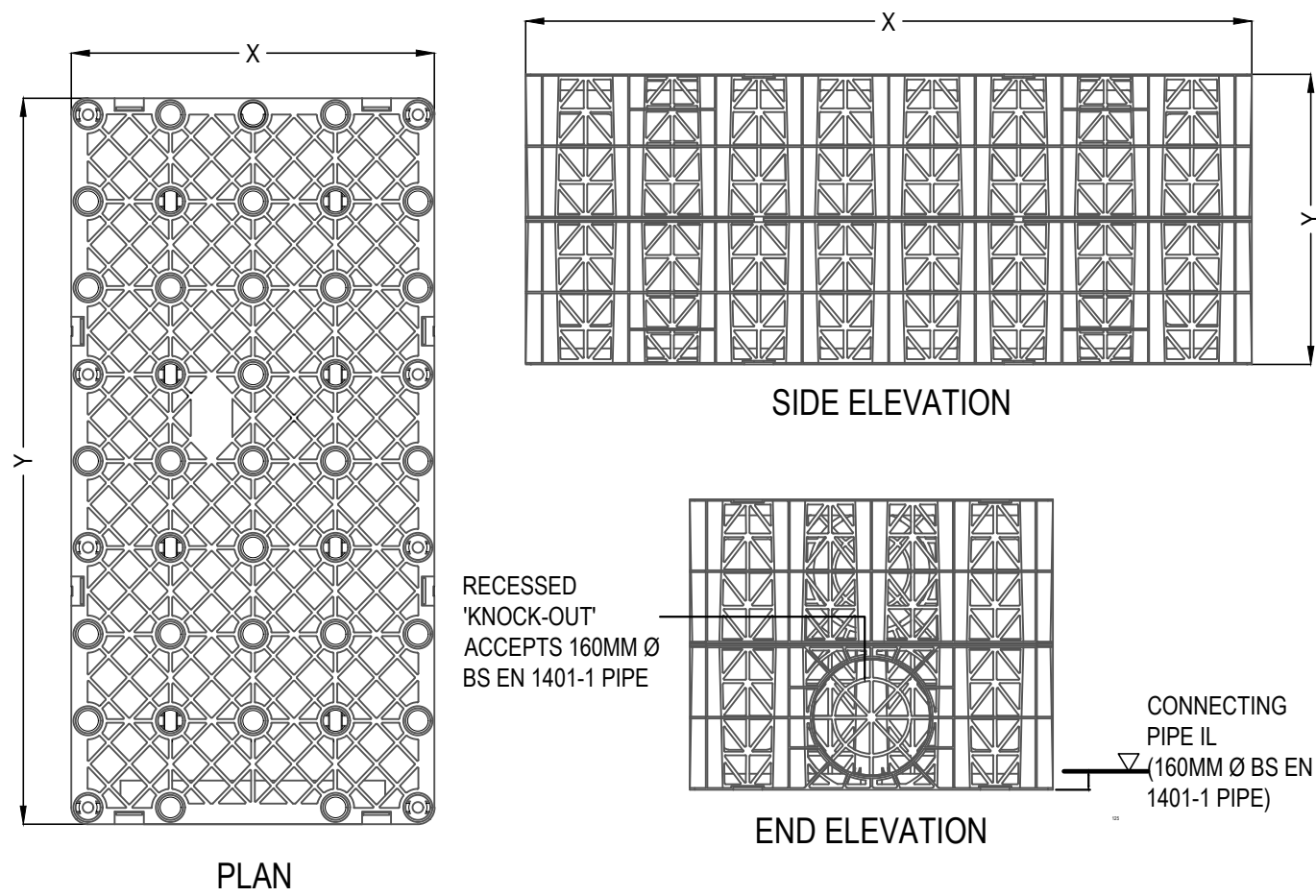
DIMENSIONS OF TOTAL UNIT 12m x 7m X0.8m DEEP
ATTENUATION VOLUME IS 64m³, BASED ON 95% VOID RATIO IS TBC

MIN COVER LEVEL IS APPROX.610mm
MAX COVER LEVEL IS APPROX. 740mm
CONCRETE SLAB MAY BE REQUIRED - REQUIREMENTS TBC BY TANK SUPPLIER.

IMPERMEABLE MEMBRANE, BED AND SURROUND TO BE CONFIRMED WITH THE MANUFACTURER.



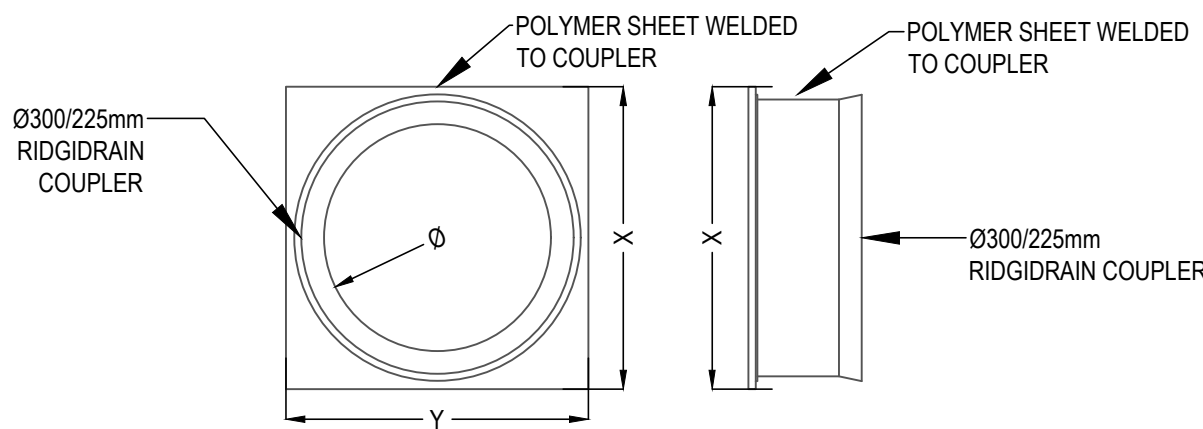
CROSS SECTION B-B



POLYPIPE POLYSTORM PSM1 ONE
UNIT TYPICAL DETAILS

POLYSTORM FLANGE ADAPTER TABLE			
FLANGE CODE	Ø (mm)	X (mm)	Y (mm)
PSMFA300	375	385	450

* FLANGE ADAPTERS ARE COMPATIBLE WITH THE PSM1, PSM1A, PSM2, PSM3 CELLS.
* CONSIDERATION TO HYDRAULIC PERFORMANCE SHOULD BE TAKEN WHEN USING A FLANGE ADAPTER



POLYSTORM FLANGE ADAPTER DETAIL

- GENERAL NOTES:
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
 - ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
 - REFER TO DRAINAGE LAYOUT 087132-CUR-XX-00-DR-C-92500 FOR THE LOCATION OF THE ATTENUATION TANK.
 - ATTENUATION TANK TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
 - WHERE AN ALTERNATIVE ATTENUATION TANK DEVICE IS PREFERRED, IT WILL BE SUBJECT TO REDESIGN TO CONFIRM WHETHER THE SYSTEM HAS CAPACITY.
 - THE DESIGN OF THE TANK SHOULD BE PROVIDED BY THE MANUFACTURER OR SUPPLIER TO ENSURE THE TANK IS SUFFICIENT FOR THE SITE SPECIFIC CRITERIA.
 - THE TANK DESIGN SHOULD INCORPORATE:
 - CRATES SUBJECT TO OCCASIONAL HEAVY VEHICLE LOADING,
 - SUITABLE MAINTENANCE ACCESS; AND
 - VENTING TO PREVENT TRAPPED AIR POCKETS.
 - THE STRENGTH OF THE TANK SHOULD COMPLY WITH CIRIA C680 STRUCTURAL DESIGN OF MODULAR GEOCELLULAR DRAINAGE TANKS.
 - ACCESS FOR MAINTENANCE SHOULD BE IN ACCORDANCE WITH CIRIA GUIDANCE.
 - VENTING TO THE TANK SHOULD BE CONFIRMED BY THE TANK MANUFACTURER. VENTING SHOULD BE LOCATED WITHIN LANDSCAPED AREAS, OR ROUTED BACK TO THE NEAREST MANHOLE ABOVE THE DESIGN WATER LEVEL.
 - CONSTRUCTION AND INSTALLATION OF THE TANK SHOULD BE STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
 - THE CURRENT DESIGN OF THE TANK IS BASED ON USE OF ESS POLIPIPE CUBE MODULES, TO ALLOW AN ASSUMPTION OF UNIT SIZES WITHIN THE OVERALL DESIGN. HOWEVER, WHERE AN ALTERNATIVE SYSTEM IS PROPOSED, THE DIMENSIONS OF THE UNITS WILL NEED TO BE CHECKED WITHIN THE DESIGN AND MAY RESULT IN A REDESIGN.
 - THE CONTRACTOR SHALL PROHIBIT THE MOVEMENT OF CONSTRUCTION PLANT ACROSS THE STORAGE TANK AND WHERE NECESSARY PROVIDE ADDITIONAL SUPPORT AND PROTECTION TO THE STRUCTURE. PARTICULARLY POST CONSTRUCTION. TEMPORARY FENCING CAN BE USED TO PROHIBIT TRADE STOCKS, PILLING MATERIALS, HEAVY PLANTS ETC.
 - FINAL DESIGN IS SUBJECT TO CONTRACTOR'S DESIGN PORTION

P02	STAGE 3 ISSUE	05/06/25	ATL	MW
P01	ISSUED FOR COMMENT	01/05/25	KS	MW

Rev:	Description:	Date:	By:	Chkd:
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Status: **STAGE 3** **S3**

Project: **WHITEFIELD MEDICAL CENTRE**

Orig Title: **DRAINAGE DETAILS SHEET 4**

Drawn By	Designed By	Checked By
KS	MW	MW
Date	01/05/2025	Scales @ A1
1:20		

Project No - Originator - Function - Spatial - Form - Discipline - Number	Revision
087132 - CUR - XX - XX - DR - C - 92523	P02

