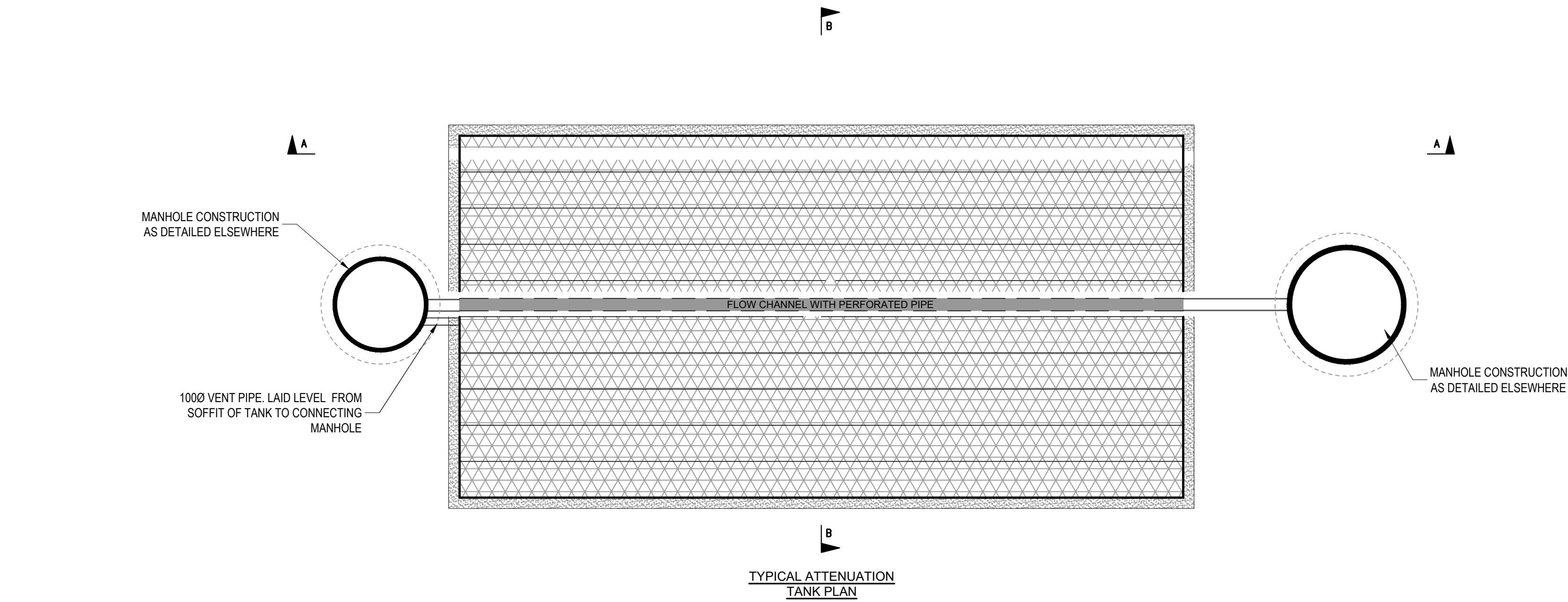




CURRENT DESIGN ASSUMPTIONS

DESIGN BASED ON POLYPIPE 1000LX500WX400D

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

MINIMUM REQUIRED VOLUME IS 106m³
140m2 x 0.8m DEEP (x 0.95VR) = c.106m³

GROUND LEVELS ABOVE TANK TO BE CONSIDERED WHEN SELECTING TANK TYPE.

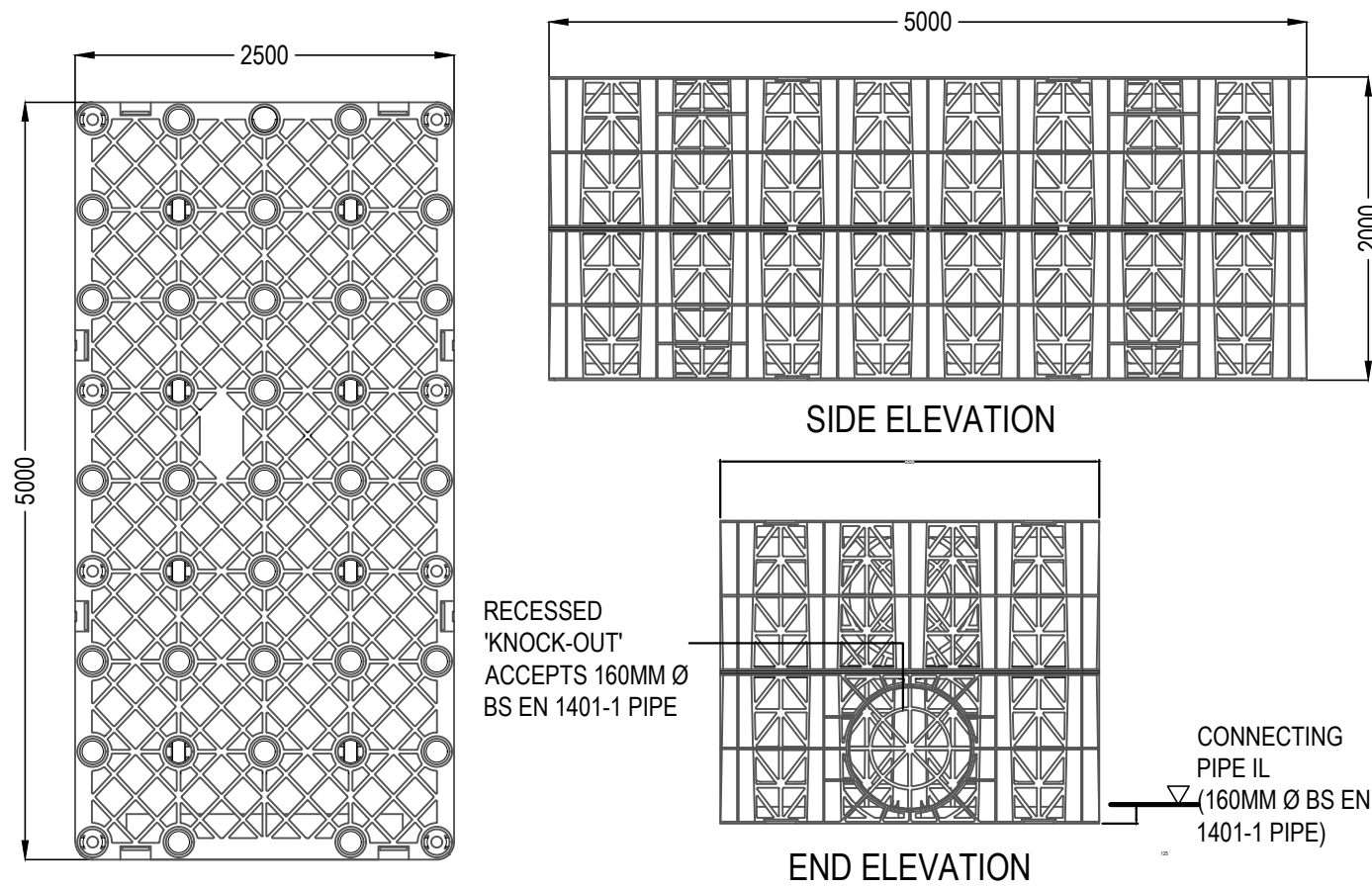
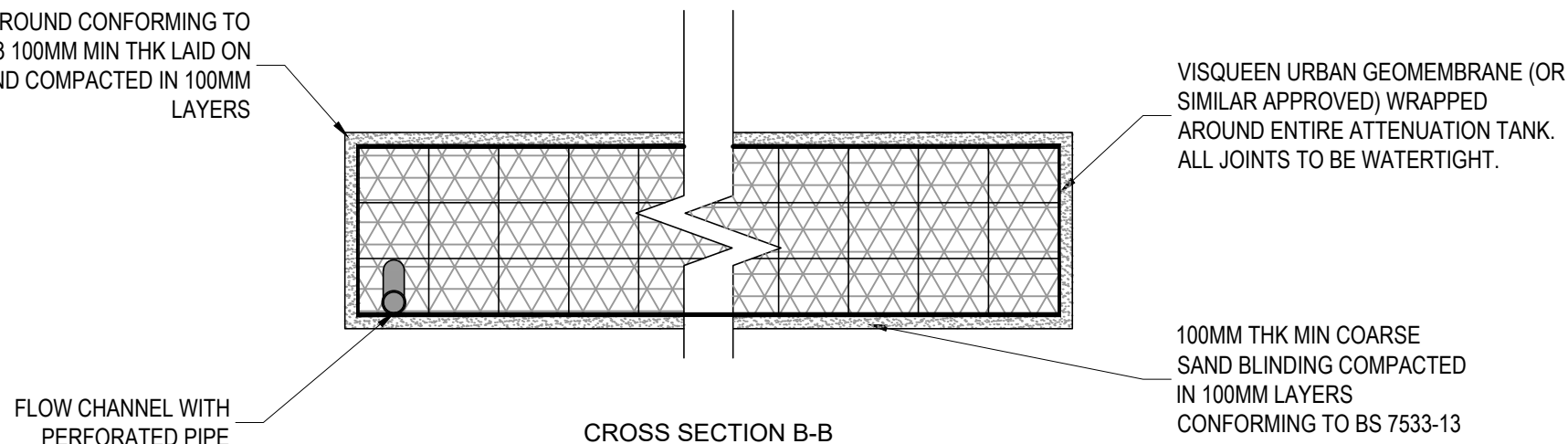
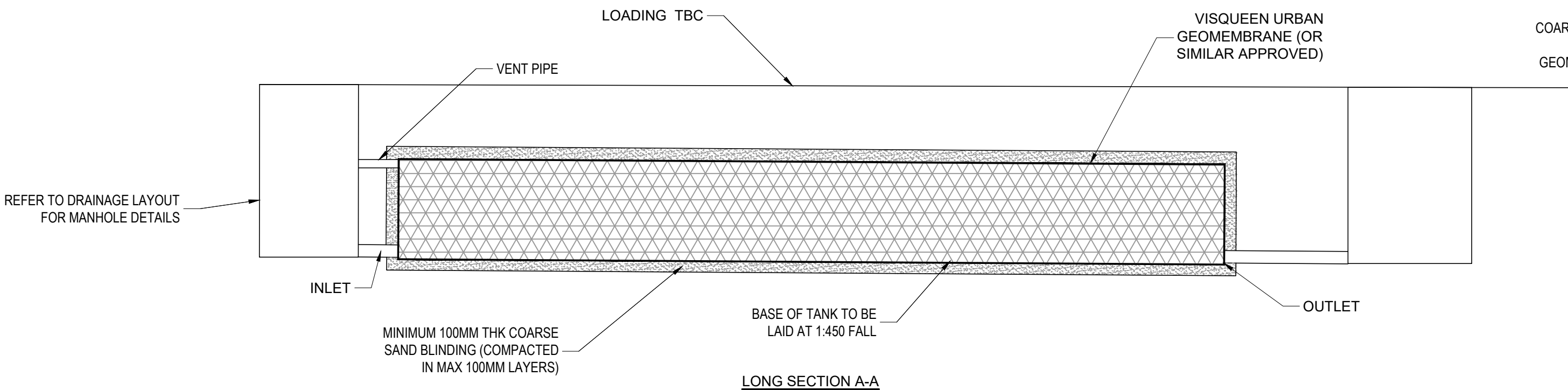
CURRENT TANK DESIGN BASED ON:
GROUND LEVEL: 31.000
IL: 29.199

BASE OF TANK TO BE LAID AT 1:200 APPROX FALL.

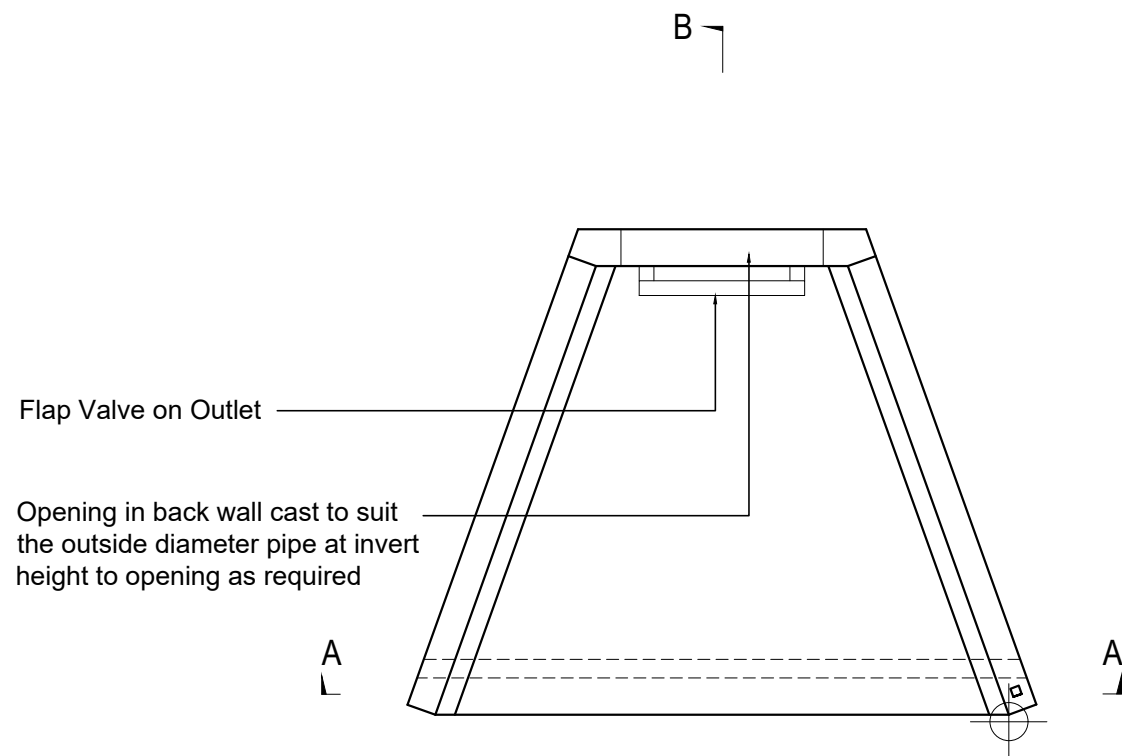
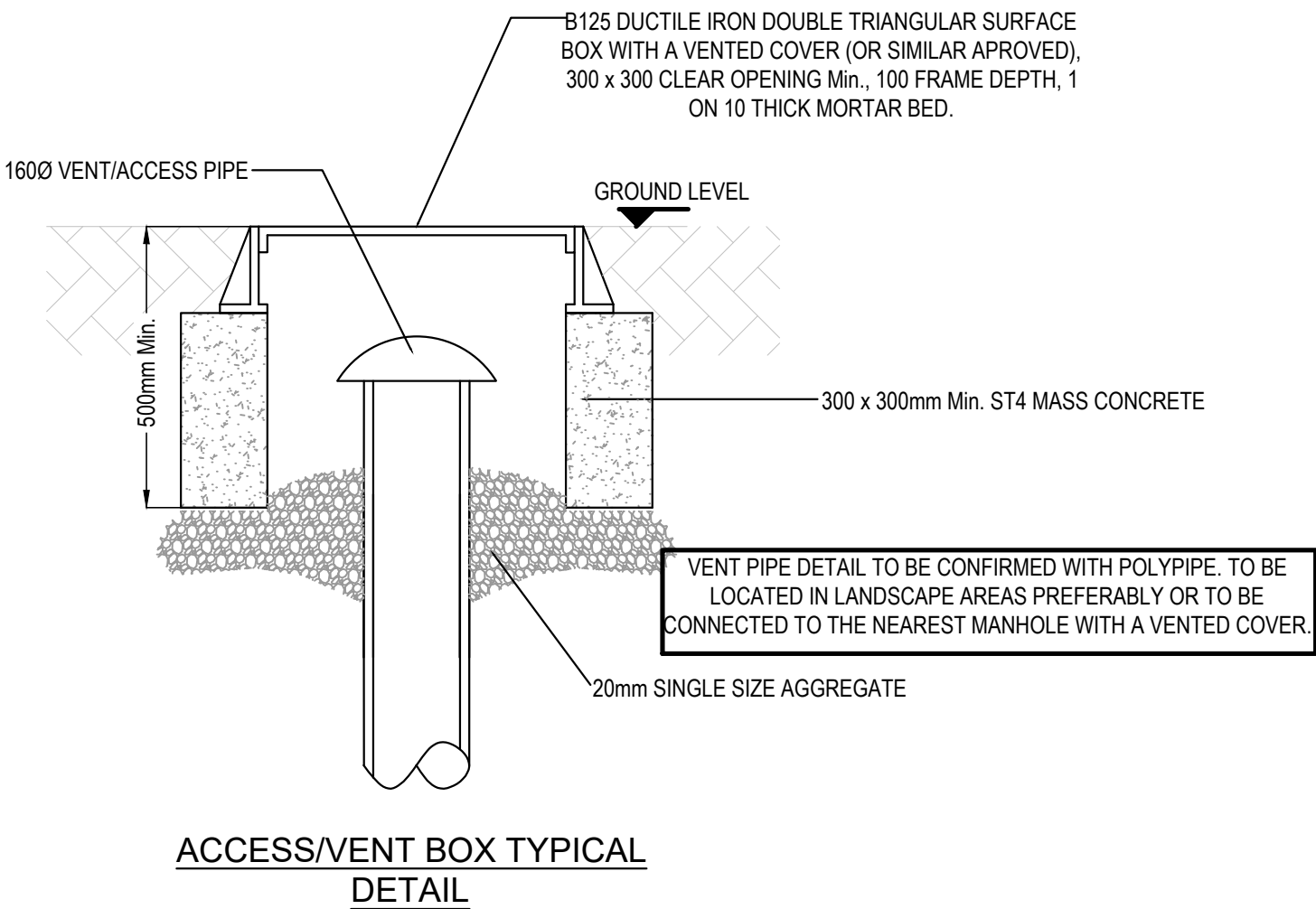
IMPERMEABLE MEMBRANE, BED AND SURROUND TO BE CONFIRMED WITH THE MANUFACTURER.

REFER TO DRAINAGE LAYOUT FOR TANK & INLET/OUTLET LOCATIONS.

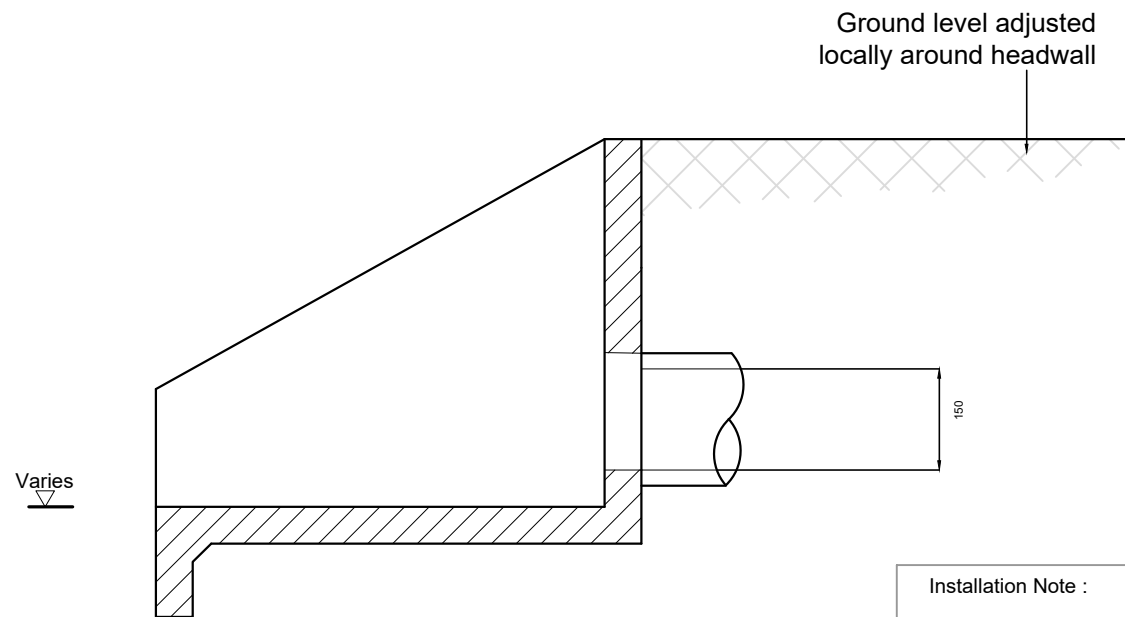
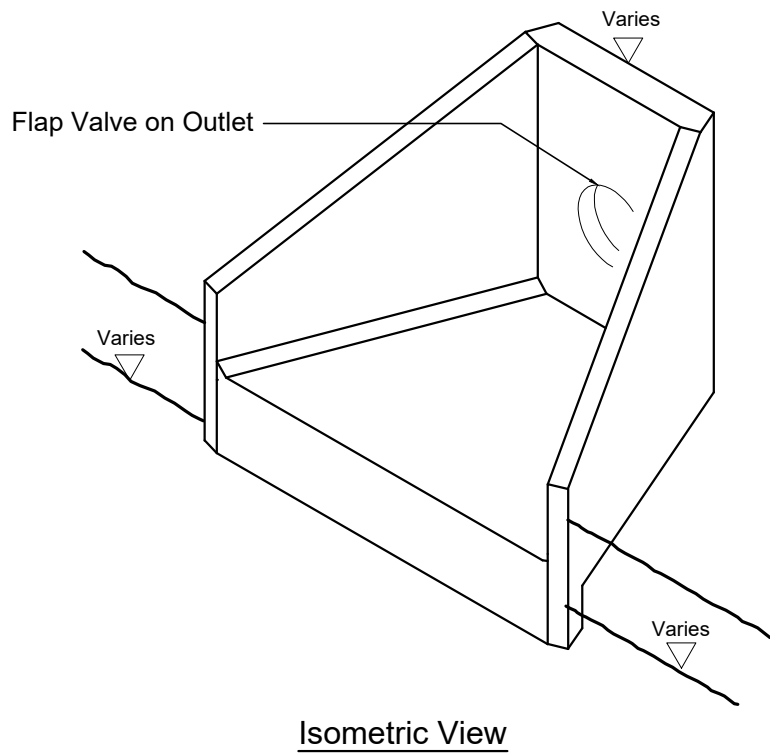
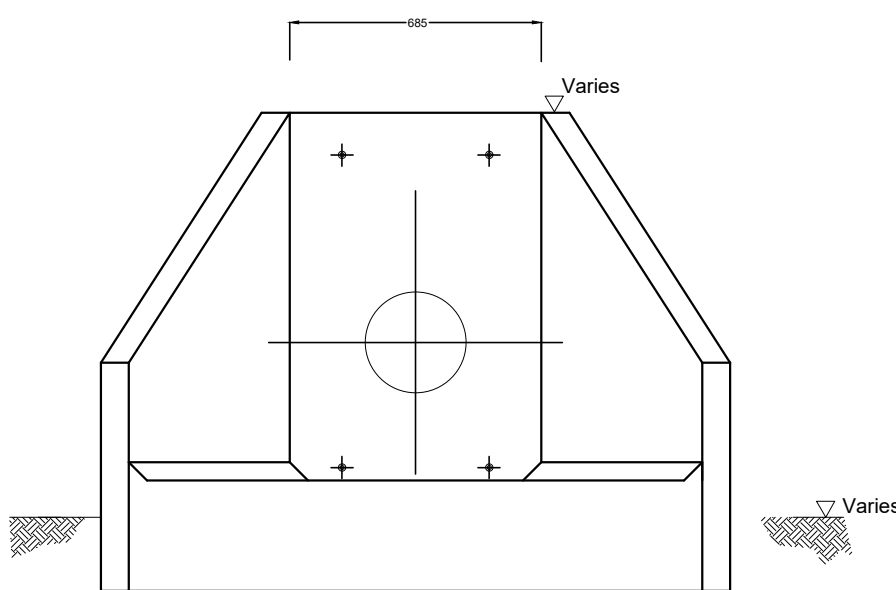
*GROUND WATER CHECKED AND CONSIDERED FOR FLOTATION OF THE ATTENUATION TANK. NO REQUIREMENT FOR ADDITIONAL PROTECTION. BASED ON CURRENT TANK DIMENSIONS WITH MINIMUM GROUND LEVEL OF 31.000 PROVIDING A MINIMUM COVER OF MATERIAL. GROUNDWATER LEVEL BASED ON MAX RECORDED WS GROUNDWATER LEVEL OF 0.5m BGL.FINAL DESIGN BY CHOSEN TANK MANUFACTURER.



POLYPIPE POLYSTORM PSM1 ONE UNIT TYPICAL DETAILS



Surface water headwall plan (ALTHON H3C HEADWALL OR SIMILAR)



Installation Note :

- Units should be bedded on minimum 100mm of semi-dry concrete, sit the headwall level or with a slight fall 1:50 from pipe to spill mouth.
- All dimensions are in mm

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 EWA-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 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 PLUVIAL 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

P05	STAGE 4 UPDATE	30.06.22	CS	CG
P04	STAGE 4 UPDATE	19.11.21	CD	CG
P03	DRAFT STAGE 4 UPDATE - TANK DETAILS UPDATED	06.11.21	CD	CG
P02	STAGE 4	14.06.21	CD	CG
P01	STAGE 3 ISSUE	16.04.21	CD	CG
Rev:	Description:	Date:	By:	Chkd:

 Merchant Exchange, 17-19 Whitworth Street West, Manchester, M1 5WG 0161 236 2394 manchester@curtins.com www.curtins.com Civils & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer Birmingham • Bristol • Cambridge • Cardiff • Douglas • Dublin • Edinburgh • Glasgow • Kander • Leeds • Liverpool • London • Manchester • Nottingham				
Status: STAGE 4 UPDATE				
Project: HOUGH END SPORTS VILLAGE				
Dwg Title: DRAINAGE DETAILS SHEET 4				
Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	16.04.21	CD	CG	CG
Scale: 1:20				
Project No:	Originator:	Zone:	Level:	Type: Discipline: Category / Number: Rev:
HEV	-CUR	-XX	-XX	-DR -C - 92523 -P05