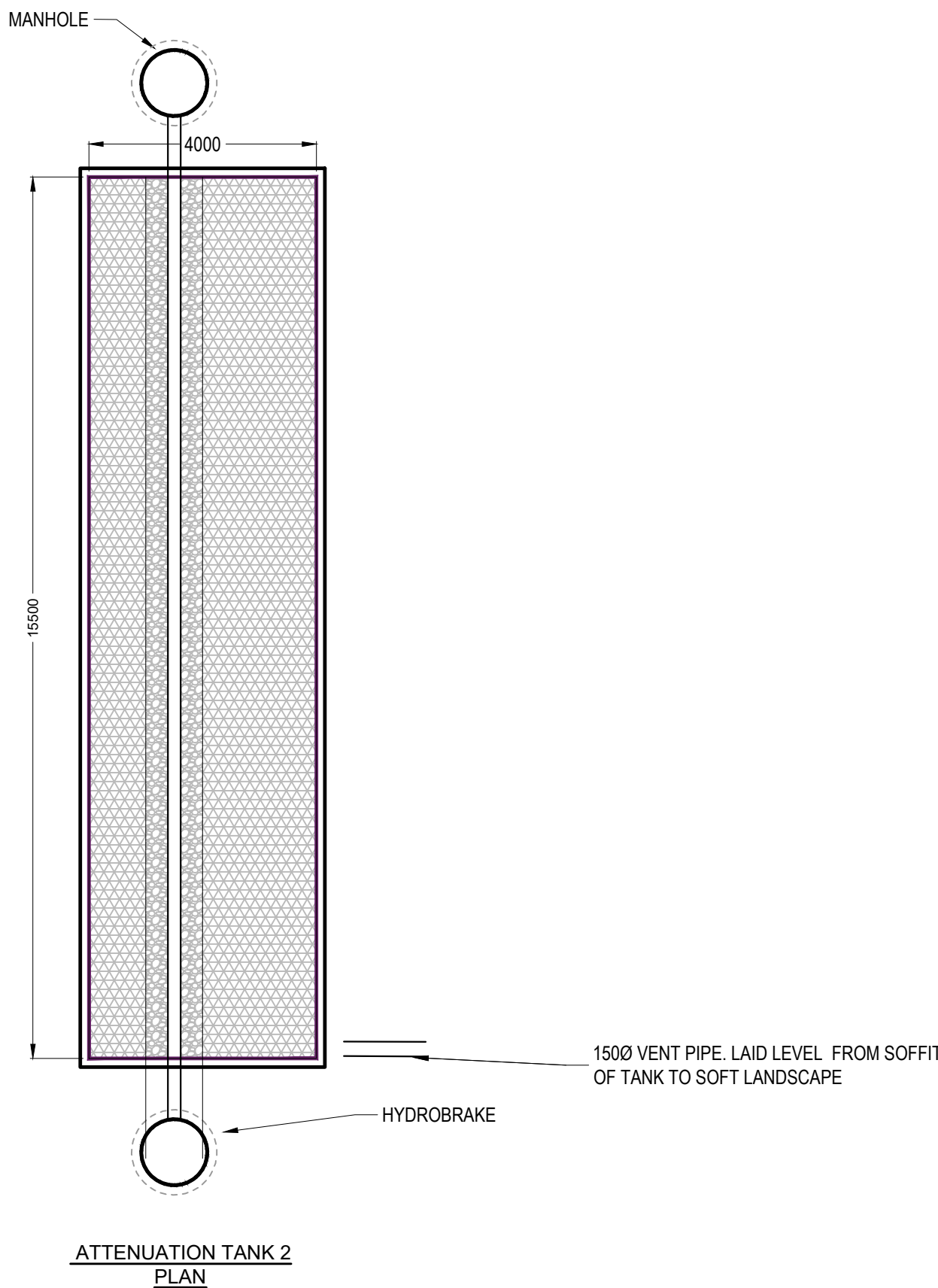
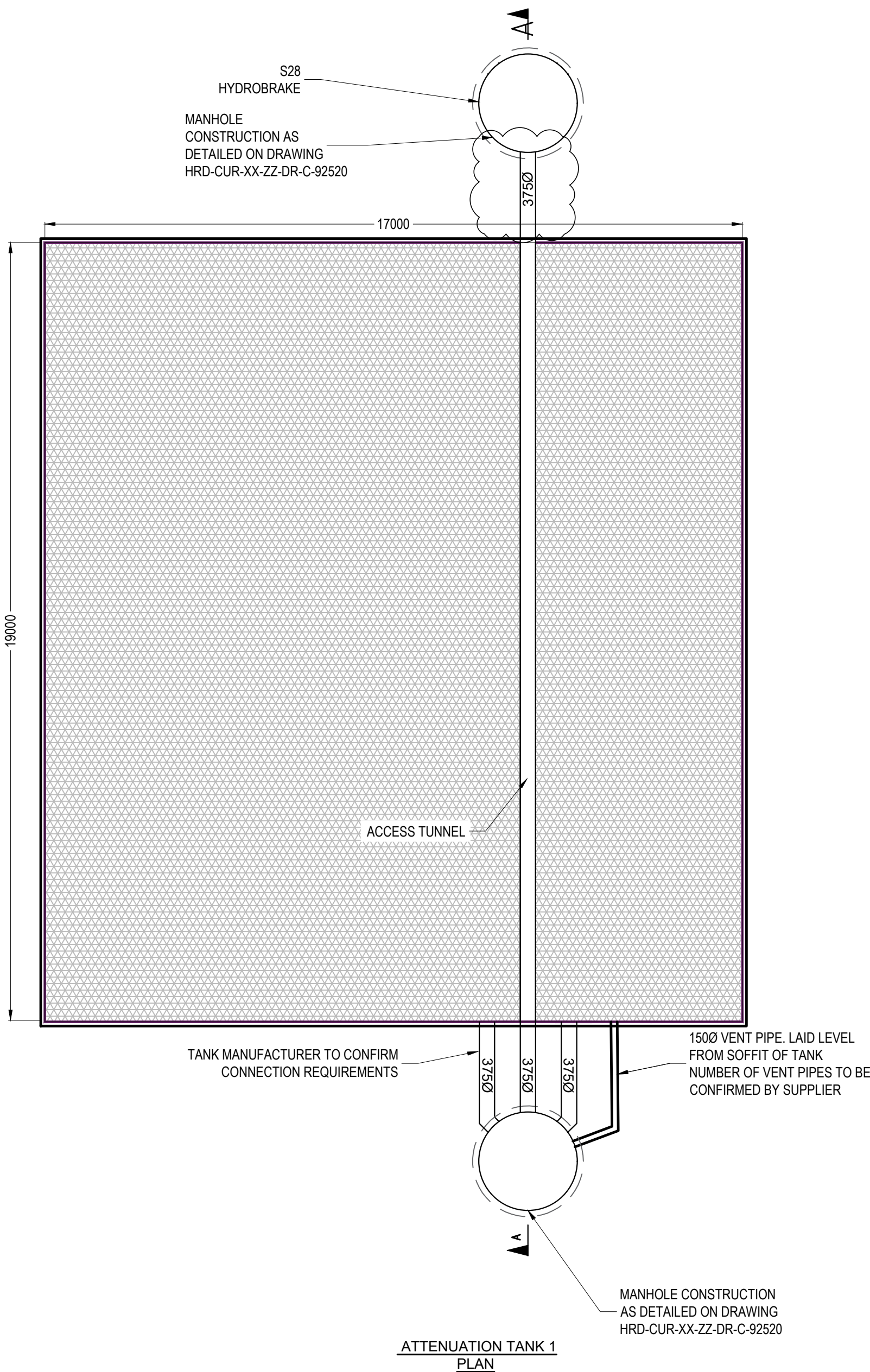
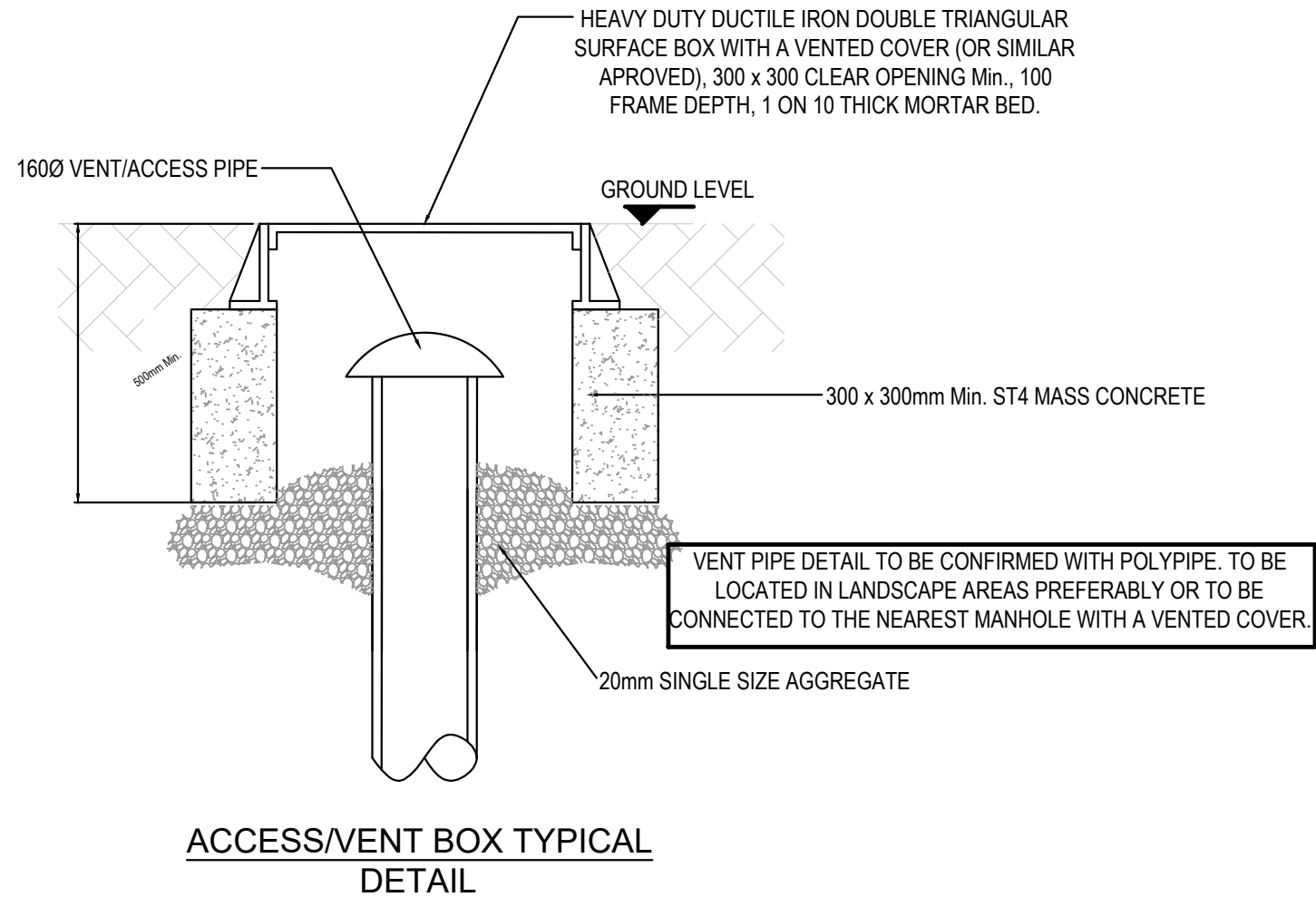
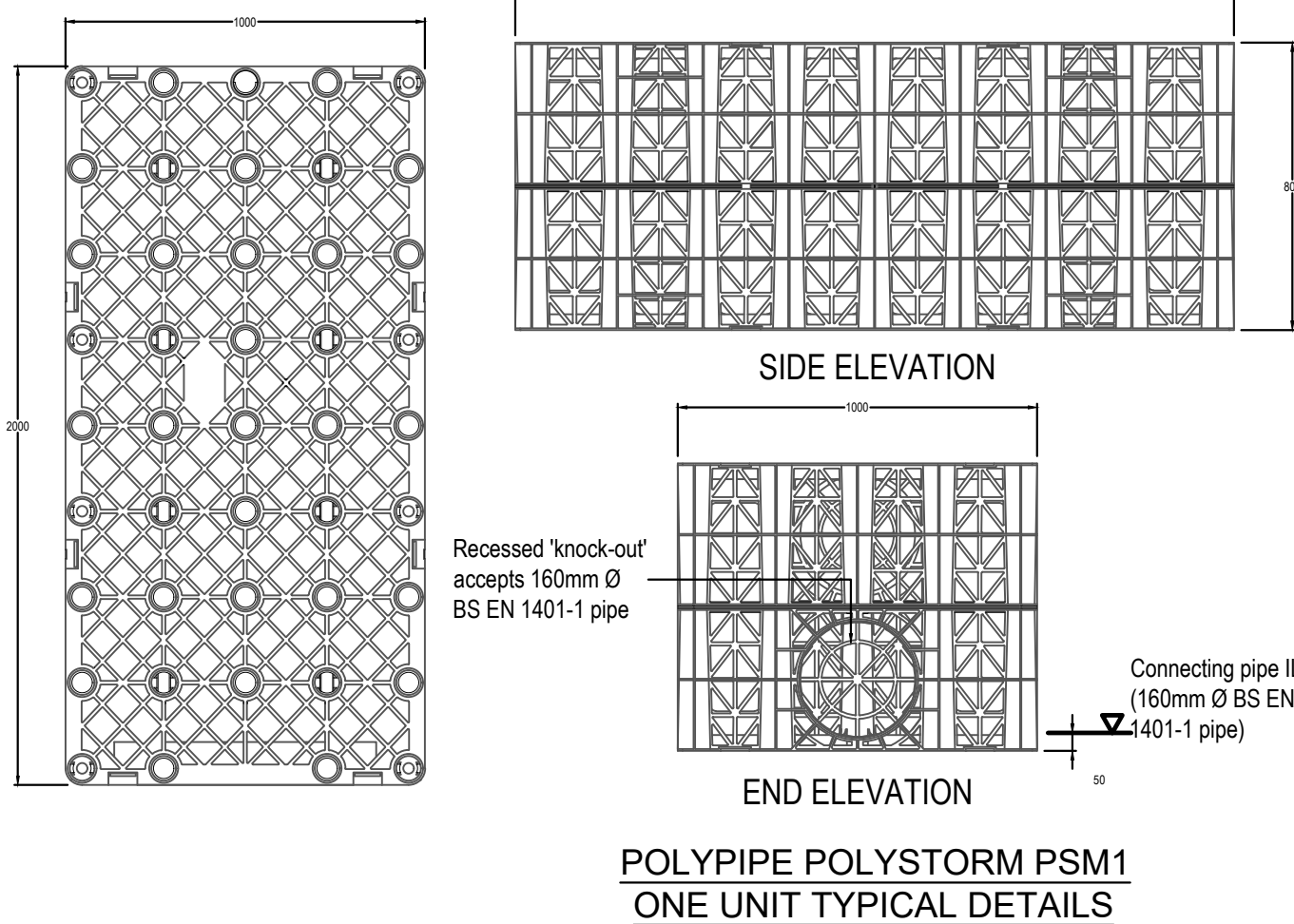
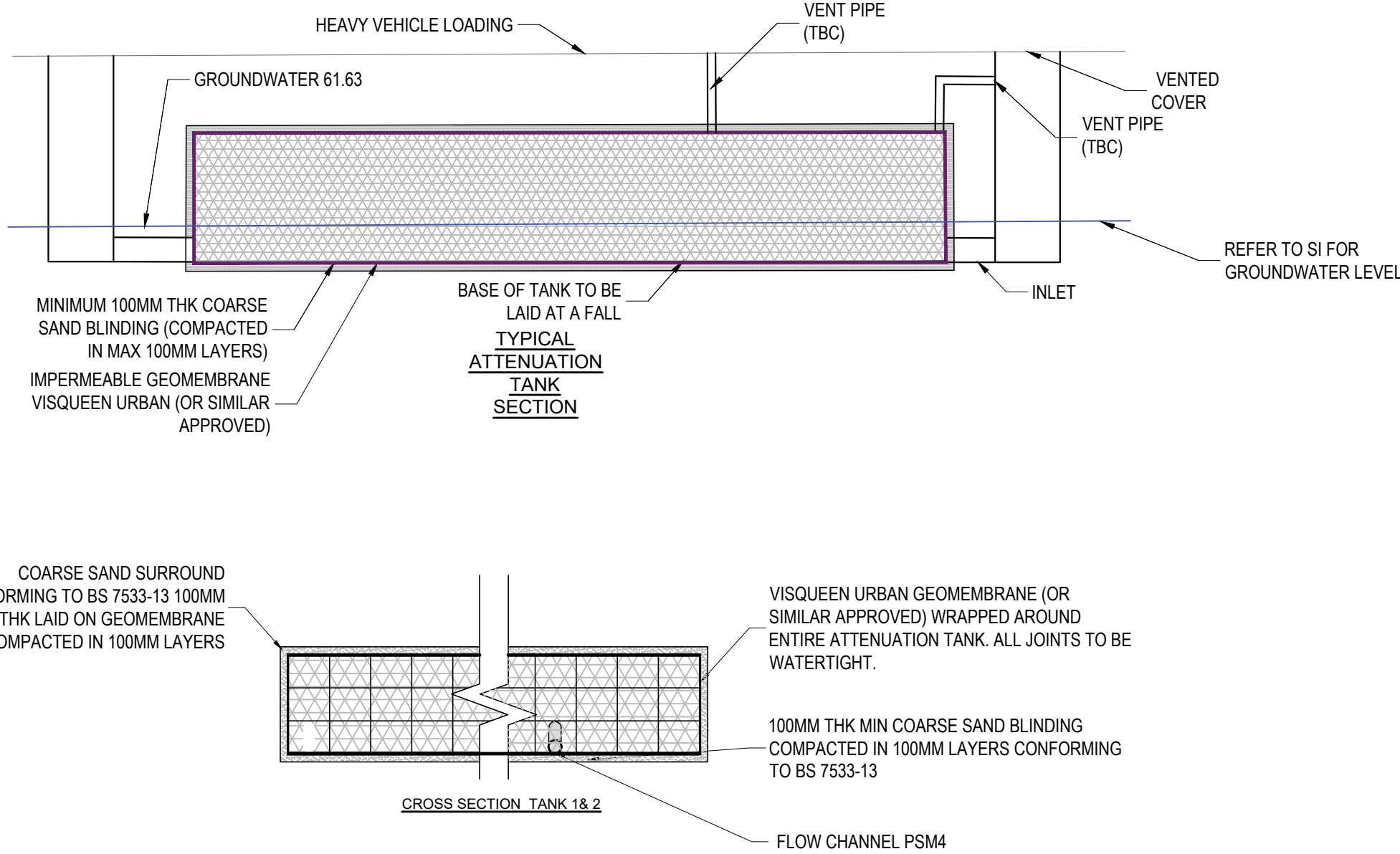




ATTENUATION TANK 1
6 x 400mm LAYERS OF POLYSTORM PSM1/
BASED ON APPROXIMATE MINIMUM BURIAL DEPTH OF 3.35m.
TANK IS LOCATED IN AN AREA SUBJECT TO HEAVY VEHICLES TRAFFIC (60T)
THE MANUFACTURER WILL NEED TO CONFIRM THAT THE TANK HAS SUFFICIENT STRENGTH FOR THIS LOCATION IN ACCORDANCE WITH CIRIA C680.
MAX GROUND LEVEL APPROX. 64.52 (MAX 0.95m COVER).
MIN GROUND LEVEL APPROX. 64.24 (MIN 0.66m COVER).
INVERT LEVEL OF INLET PIPES 61.23
INVERT LEVEL OF OUTLET PIPES 61.17
BASE OF TANK TO BE LAID AT 1:300 FALL.
DIMENSIONS OF TOTAL UNIT ARE AS SHOWN. PLAN AREA IS 323m²
TANK HEIGHT IS 2400mm.
ATTENUATION VOLUME, BASED ON 95% VOID RATIO IS 737m³
TANK TO BE WRAPPED IN IMPERMEABLE MEMBRANE AND THE MEMBRANE SHOULD BE LAPPED BY A MINIMUM OF 300mm.
TANK TO BE BED AND SURROUND IN MINIMUM OF 100mm LAYER OF COMPACTED COARSE SAND OR GLASS 6H SELECTED GRANULAR MATERIAL. REQUIREMENT FOR CONCRETE SURROUND OR PROTECTION TO BE CONFIRMED WITH THE MANUFACTURER.
(IF AN ALTERNATIVE MANUFACTURER IS USED, THESE REQUIREMENTS SHOULD BE IN LINE WITH THEIR REQUIREMENTS)
REFER TO DRAINAGE LAYOUT HRD-CUR-XX-00-DR-C-92-500
BASED ON ADDITIONAL SITE INVESTIGATION REPORT REF 068065-CUR-00-XX-RP-GE-00004.
GROUNDWATER WAS NOT RECORDED ABOVE THE PROPOSED BASE LEVEL OF THE TANK.

ATTENUATION TANK 2
TANK BASED ON GEOLIGHT UNITS BY SDS REFER TO DRAWINGS E235121_02
TANK IS LOCATED IN AN AREA SUBJECT TO HEAVY VEHICLES TRAFFIC (60T)
THE MANUFACTURER WILL NEED TO CONFIRM THAT THE TANK HAS SUFFICIENT STRENGTH FOR THIS LOCATION IN ACCORDANCE WITH CIRIA C680.
MAX GROUND LEVEL APPROX. 64.63 (MAX 1.08m COVER).
MIN GROUND LEVEL APPROX. 64.33 (MIN 0.80m COVER).
INVERT LEVEL OF INLET PIPE 62.80
INVERT LEVEL OF OUTLET PIPE 62.78
BASE OF TANK TO BE LAID AT 1:225 FALL.
DIMENSIONS OF TOTAL UNIT AS SHOWN. PLAN AREA IS 62m²
TANK HEIGHT IS 750mm.
ATTENUATION VOLUME, BASED ON 95% VOID RATIO IS 40m³
TANK TO BE WRAPPED IN IMPERMEABLE MEMBRANE AND THE MEMBRANE SHOULD BE LAPPED BY A MINIMUM OF 300mm.
TANK TO BE BED AND SURROUND IN MINIMUM OF 100mm LAYER OF COMPACTED COARSE SAND OR GLASS 6H SELECTED GRANULAR MATERIAL. REQUIREMENT FOR CONCRETE SURROUND OR PROTECTION TO BE CONFIRMED WITH THE MANUFACTURER.
(IF AN ALTERNATIVE MANUFACTURER IS USED, THESE REQUIREMENTS SHOULD BE IN LINE WITH THEIR REQUIREMENTS)
REFER TO DRAINAGE LAYOUT HRD-CUR-XX-00-DR-C-92-500
BASED ON SITE INVESTIGATION REPORT CP4 WHICH IS THE NEAREST THE GROUND WATER IS 2.92mgl (61.63mAOD) BASED ON COVER 64.55mAOD



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 ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- REFER TO THE DRAINAGE LAYOUT FOR THE LOCATION OF THE FLOW CONTROL.
- FLOW CONTROL TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- WHERE ALTERNATIVE FLOW CONTROL DEVICE IS PREFERRED, IT WILL BE SUBJECT TO REDESIGN TO CONFIRM WHETHER THE SYSTEM HAS CAPACITY.
- 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 ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
- 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 HGV 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 POLYPIPE POLYSTORM UNITS, 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.

P12	UPDATED IN LINE WITH COMMENTS	13.02.24	ATL	MW
P11	UPDATED FOR NEW TENDER	02.02.24	ATL	MW
C02	UPDATED TO MANUFACTURER RECOMMENDATION	24.10.22	MW	MW
C01	CONSTRUCTION ISSUE	28.09.22	MW	MW
P10	ATTENUATION TANK 4 DETAILS ADDED	22.08.22	TH	MW
P09	ATTENUATION TANK 1 AMENDED	05.08.22	ATL	ATL
P08	UPDATED STAGE 4	21.07.22	MW	MW
P07	UPDATED TO REFLECT STAGE 4 DESIGN UPDATES	20.07.22	MW	MW
P06	STAGE 4 ISSUE, IN LINE WITH COMMENTS	24/11/21	ATL	MW
P05	STAGE 4 ISSUE, TANK 2 UPDATED	05/08/21	MW	MW
P04	STAGE 4 ISSUE	09/04/21	MW	MW
P03	STAGE 3 ISSUE	03/12/20	MW	MW
P02	STAGE 3 ISSUE	04/11/20	MW	MW
P01	STAGE 3 ISSUE	29/01/19	MW	CG
Rev:	Description:	Date:	By:	Chkd:

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Status: **STAGE 5**

Project: **HAMMERSTONE ROAD DEPOT**

Orig Title: **DRAINAGE DETAILS
SHEET 3**

Project No:	Size:	Date:	Drawn By:	Designed By:	Checked By:
068065	A1	29/01/19	MW	MW	CG
Scale: 1:20					
Project Code:	Originator:	Zone:	Level:	Type:	Discipline:
HRD	- CUR	- XX	- ZZ	- DR	- C
					92522
					-P12