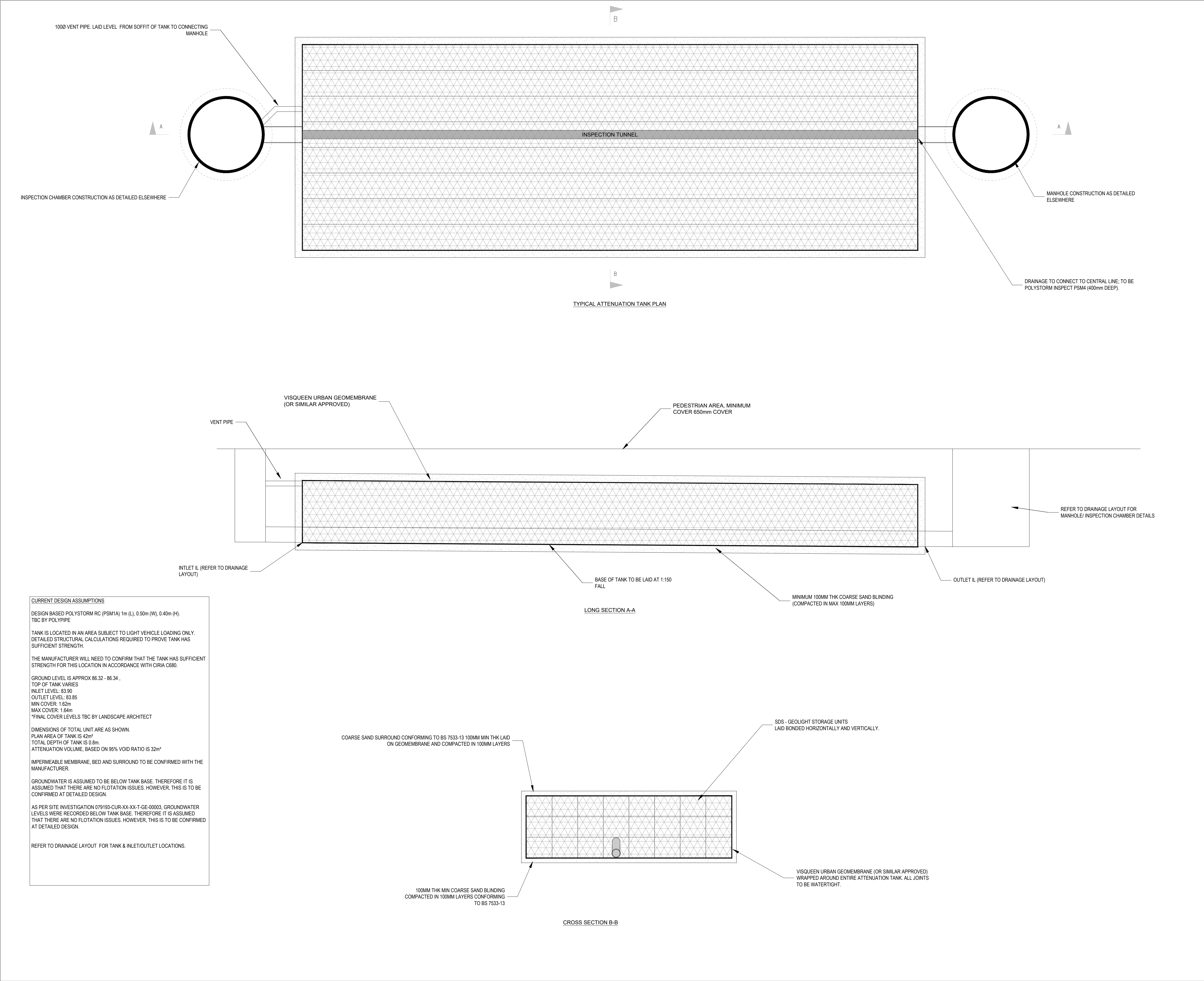




CURRENT DESIGN ASSUMPTIONS

DESIGN BASED POLYSTORM RC (PSM1A) 1m (L), 0.50m (W), 0.40m (H).
TBC BY POLYPIPE

TANK IS LOCATED IN AN AREA SUBJECT TO LIGHT VEHICLE LOADING ONLY.
DETAILED STRUCTURAL CALCULATIONS REQUIRED TO PROVE TANK HAS SUFFICIENT STRENGTH.

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

GROUND LEVEL IS APPROX 86.32 - 86.34 ,
TOP OF TANK VARIES
INLET LEVEL: 83.90
OUTLET LEVEL: 83.85
MIN COVER: 1.62m
MAX COVER: 1.64m
*FINAL COVER LEVELS TBC BY LANDSCAPE ARCHITECT

DIMENSIONS OF TOTAL UNIT ARE AS SHOWN.
PLAN AREA OF TANK IS 42m²
TOTAL DEPTH OF TANK IS 0.8m.
ATTENUATION VOLUME, BASED ON 95% VOID RATIO IS 32m³

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

GROUNDWATER IS ASSUMED TO BE BELOW TANK BASE. THEREFORE IT IS ASSUMED THAT THERE ARE NO FLOTATION ISSUES. HOWEVER, THIS IS TO BE CONFIRMED AT DETAILED DESIGN.

AS PER SITE INVESTIGATION 079189-CUR-XX-XX-T-GE-0003, GROUNDWATER LEVELS WERE RECORDED BELOW TANK BASE. THEREFORE IT IS ASSUMED THAT THERE ARE NO FLOTATION ISSUES. HOWEVER, THIS IS TO BE CONFIRMED AT DETAILED DESIGN.

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

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.

2. 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.

3. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.

4. REFER TO DRAINAGE LAYOUT 074031- CUR-00-XX-DR-C-92610 DRAINAGE LAYOUT PHASE 2 FOR THE LOCATION OF THE ATTENUATION TANK.

5. ATTENUATION TANK TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.

6. WHERE AN ALTERNATIVE ATTENUATION TANK DEVICE IS PREFERRED, IT WILL BE SUBJECT TO REDESIGN TO CONFIRM WHETHER THE SYSTEM HAS CAPACITY.

7. THE DESIGN OF THE TANK SHOULD BE PROVIDED BY THE MANUFACTURER OR SUPPLIER TO ENSURE THE TANK IS SUFFICIENT FOR THE SITE SPECIFIC CRITERIA.

8. THE TANK DESIGN SHOULD INCORPORATE:

- CRATES SUBJECT TO REGULAR HEAVY VEHICLE LOADING,
- SUITABLE MAINTENANCE ACCESS; AND
- VENTING TO PREVENT TRAPPED AIR POCKETS.

9. THE STRENGTH OF THE TANK SHOULD COMPLY WITH CIRIA C680 STRUCTURAL DESIGN OF MODULAR GEOCELLULAR DRAINAGE TANKS.

10. ACCESS FOR MAINTENANCE SHOULD BE IN ACCORDANCE WITH CIRIA GUIDANCE.

11. 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.

12. CONSTRUCTION AND INSTALLATION OF THE TANK SHOULD BE STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.

13. THE CURRENT DESIGN OF THE TANK IS BASED ON USE OF PSM1 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.

14. 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.

15. REFER TO DRAINAGE LAYOUT 074031- CUR-00-XX-DR-C-92610 DRAINAGE LAYOUT PHASE 2 FOR THE LOCATION OF THE HYDROBRAKE.

16. FLOW CONTROL TO BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS REQUIREMENTS, INSTRUCTIONS AND RECOMMENDATIONS.

17. WHERE ALTERNATIVE FLOW CONTROL DEVICE IS PREFERRED, IT WILL BE SUBJECT TO REDESIGN TO CONFIRM WHETHER THE SYSTEM HAS CAPACITY.

18. SURFACE WATER DRAINAGE CONNECTION SUBJECT TO S106 AGREEMENT WITH UNITED UTILITIES

19. FOR FULL DRAINAGE NOTES REFER TO DWG 074031-CUR-00-XX-DR-C-92620

P01

ISSUED FOR TENDER

19/07/24

JC

CS

Rev:

Description:

Date:

By:

Chkd:

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Status:

TENDER ISSUE

Project:

OLDHAM ROAD, NEWTON HEATH

Orig Title:

DRAINAGE DETAILS
SHEET 4 OF 4
PHASE 2

Drawn By

JC

Designed By

CS

Checked By

CS

Date

11/01/24

Scales @ A1

N/A

Project No - Originator - Function - Spatial - Form - Discipline - Number

Revision

074031 - CUR- 00 - XX- D - C- 92643

P01

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