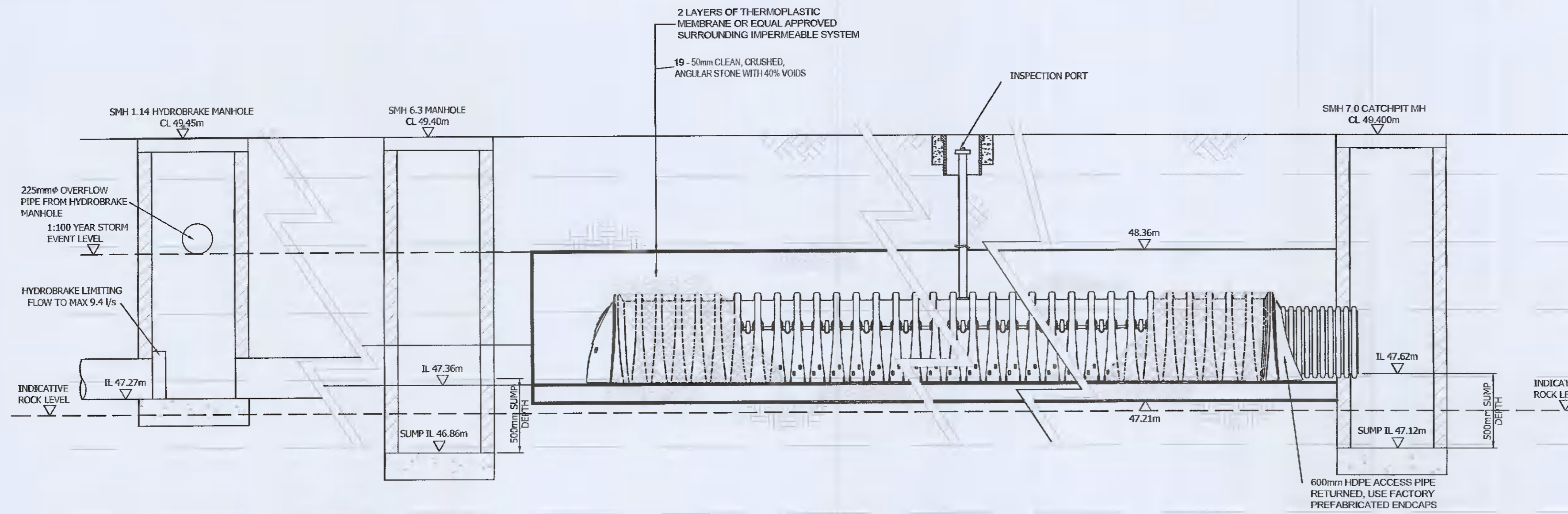


GENERAL NOTES:

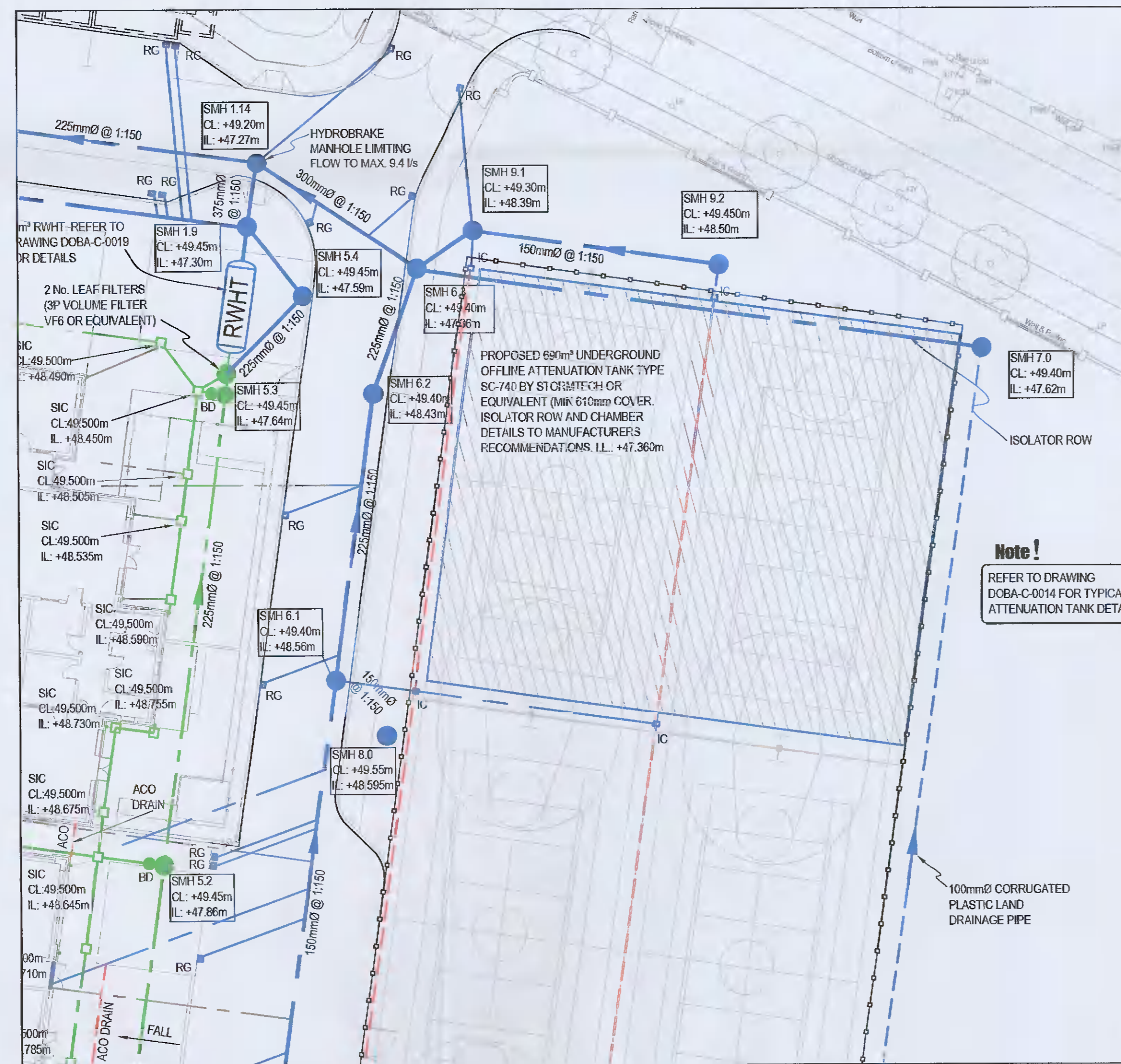
- FOR STANDARD DOBA NOTES REFER TO DRAWING LCC-DOB-XX-XX-DR-S00.1 & S00.2
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS & ENGINEERS DRAWINGS AND SPECIFICATIONS
- USE FIGURED DIMENSIONS ONLY. DO NOT SCALE
- ALL FFL AND SSL TO BE CONFIRMED BY ARCHITECT
- ALL DPC'S, DPM'S, RADON BARRIERS, INSULATION AND ALL WEATHERING DETAILS TO ARCHITECTS DRAWINGS & SPECIFICATIONS
- THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LEVELS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER & ARCHITECT FOR RESOLUTION

ATTENUATION TANK NOTES:

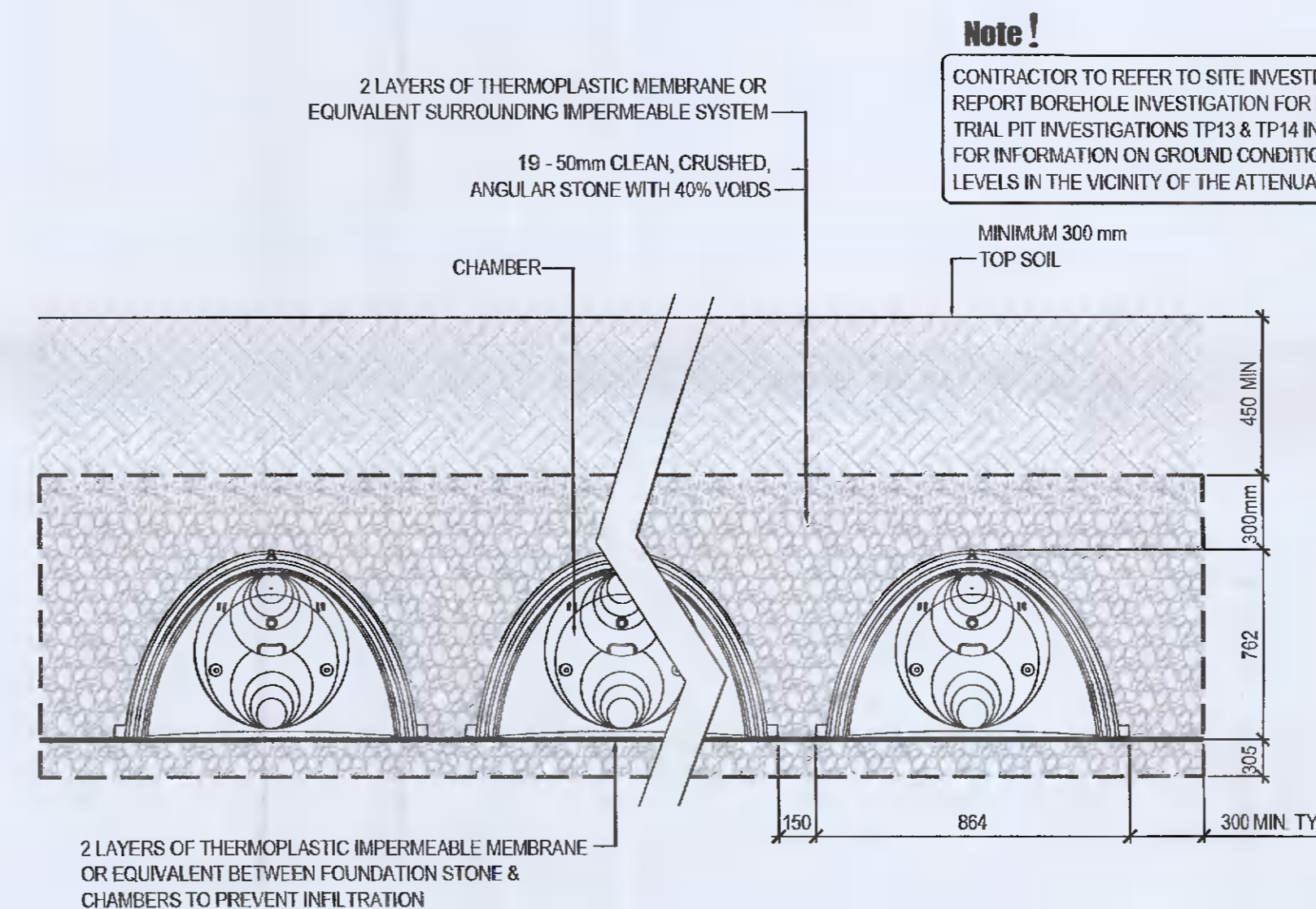
- ATTENUATION TANK SYSTEM IS TO CONSIST OF A VOID, FORMED FROM ONE OR MULTIPLE ROWS OF PARABOLIC ARCH SHAPED CHAMBERS WITH A CANTILEVER FOOT THAT IS A MINIMUM WIDTH OF 100MM.
- CHAMBERS SHALL BE MANUFACTURED FROM HDPE OR HDPP MATERIAL AND BE FORMED BY AN INJECTION MOLDED PROCESS. VIRGIN (NOT RECYCLED) POLYMER SHOULD BE USED.
- CHAMBERS SHOULD HAVE A MINIMUM WALL THICKNESS THAT IS CONSISTENT OVER BOTH THE CREST AND VALLEY. THICKNESS IS DEPENDENT ON THE NOMINAL HEIGHT OF THE CHAMBER AND SHOULD MEET THE FOLLOWING: 400MM HIGH CHAMBER = 3.1MM, 800MM HIGH CHAMBER = 4.4MM, 1100MM = 5.8MM, 1500MM = 6.4MM.
- CHAMBER SHOULD BE RATED TO TAKE TRAFFIC AND EMERGENCY ACCESS HEAVY VEHICLES (FIRETRUCK). THIS IS DEFINED AS PER EN BS 9295, A 112.5KN WHEEL (937.5KN/M2 BASED ON 0.2M X 0.6M WHEEL). THE CHAMBER SHALL BE BURIED TO A MINIMUM DEPTH TO RESIST THIS LOAD WITH A FACTOR OF SAFETY OF 1.75 APPLIED. MANUFACTURER TO SHOW INDEPENDENT TESTING TO VERIFY MINIMUM CHAMBER DEPTH REQUIRED TO MEET THE LIVE LOAD DESCRIBED ABOVE.
- CHAMBER SHALL HAVE A DESIGN LIFE OF MINIMUM 50YEARS WHEN UNDER CONSTANT DEAD LOAD. MANUFACTURE TO SHOW INDEPENDENT TESTING VERIFYING MAXIMUM DEPTH OF BURIAL. A FACTOR OF SAFETY OF 1.95 THROUGH THE DESIGN LIFE TO BE APPLIED. A CREEP REDUCTION BASED ON A 10,000 HOUR CREEP MODULUS TEST TO BE ALSO FACTORED IN FOR THE DESIGN LIFE REQUIRED. MATERIALS SHALL HAVE A 50 YEAR TENSILE CREEP MODULUS NOT LESS THAN 165MPA
- TOTAL SUSPENDED SOLIDS REMOVAL EFFICIENCY SHOULD AT LEAST AVERAGE AN EFFICIENCY OF 80%, AND BE TESTED AND APPROVED BY A RECOGNIZED EPA (ENVIRONMENTAL PROTECTION AGENCY)
- SYSTEM SHOULD BE FULLY ACCESSIBLE BY MAINTENANCE PERSONNEL AND SHOULD NOT BE RESTRICTED TO CAMERA INSPECTION ALONE.
- SYSTEM SHOULD BE CERTIFIED TO CIRIA C737
- ATTENUATION SYSTEM IS TO BE DESIGNED AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S DETAILS AND SPECIFICATIONS.
- ATTENUATION TANK TO BE DESIGNED FOR A MINIMUM FIRE TENDER LOADING OF 16.5 TONNES
- SPECIALIST DESIGNER & MANUFACTURER OF ATTENUATION TANK SYSTEM TO PROVIDE:
 - PROOF AND COPY OF CURRENT IN DATE PROFESSIONAL INDEMNITY INSURANCE
 - PROVISION OF ANCILLARY CERTIFICATES OF COMPLIANCE FOR DESIGN AND COMPLETION
 - DETAILED TECHNICAL SUBMISSION INCLUDING BUT NOT LIMITED TO; SITE SPECIFIC DRAWINGS AND DETAILS INDICATING LAYOUT OF SYSTEM, SITE SPECIFIC CALCULATIONS DEMONSTRATING SUITABILITY OF PROPOSED SYSTEM, TESTING INFORMATION & PROVING COMPLIANCE OF PRODUCT WITH RELEVANT STANDARDS
 - INSPECTION PLAN FOR THE ASSIGNED CERTIFIER'S ATTENTION FOR THE INSPECTION OF THE ATTENUATION TANK SYSTEM AS INSTALLED ON SITE
 - UPON COMPLETION OF EACH INSPECTION, A COPY OF THE INSPECTION REPORT ALSO TO BE FORWARDED TO THE ASSIGNED CERTIFIER
 - RELEVANT MANUFACTURER'S PRODUCT AND COLLATERAL WARRANTIES FOR THE VOID FORMERS
 - RELEVANT CE MARKING AND DECLARATION OF PERFORMANCE CERTIFICATES FOR THE VOID FORMERS



TYPICAL ATTENUATION SYSTEM ARRANGEMENT
SCALE 1:25



KEYPLAN
SCALE 1:250



TYPICAL CROSS-SECTION THROUGH ATTENUATION SYSTEM

ISSUED FOR PLANNING

S4.P01	ISSUED FOR PLANNING	15.02.2022	TN	RK
Rev.	Note	Date	Drawn	Check
DONNACHADH O'BRIEN & ASSOCIATES CONSULTING ENGINEERS		UNIT 5C ELM HOUSE MILLERSHUB PARK NAAS CO. KILDARE	PHONE +353 45 984 042	INFO@DOBRIEN-ENGINEERS.IE WWW.DOBRIENENGINEERS.IE
Client: DUBLIN & DUN LAOGHAIRE ETB				
Project: LUCAN COMMUNITY COLLEGE				
Drawing Title: TYPICAL ATTENUATION TANK DETAILS				
Drawn By: RR	Checked By: RK	Approved By: DOB	Date: 19.09.2016	Scale: AS SHOWN
Project Number: DOBA1446	Drawing Number: LCC-DOB-XX-SI-DR-C-0014	Status Code: S4	Rev Number: P01	Sheet Size: A1