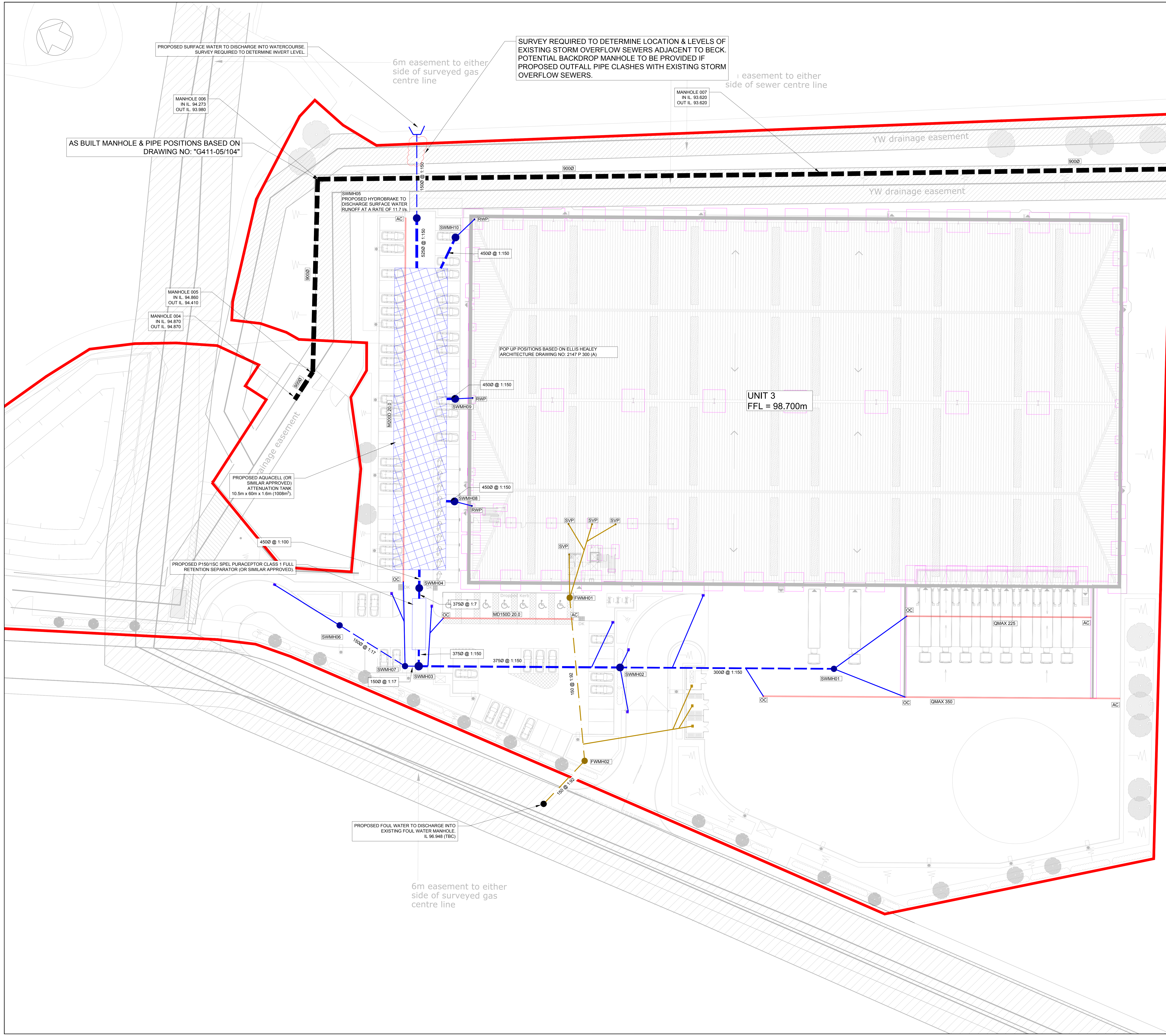




- DRAINAGE NOTES**
1. ALL DRAINAGE MATERIALS & SPECIFICATIONS TO BE IN ACCORDANCE WITH SEWERAGE SECTOR GUIDANCE APPENDIX C 'DESIGN AND CONSTRUCTION GUIDANCE'
 2. REFER TO MJM CONSULTING ENGINEERS DRAWING NO. 8495-MJM-XX-XX-DR-C-9401 & 8495-MJM-XX-XX-DR-C-9401 FOR ALL STANDARD DRAINAGE DETAILS
 3. THE LOCATION, SIZE AND DEPTH OF ALL EXISTING DRAINS/SEWERS AND SERVICES SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS ON SITE. ANY DISCREPANCIES FROM THE INFORMATION INDICATED ON THESE DRAWINGS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER
 4. ALL PIPES SHALL BE LAID WITH SOFFITS LEVEL AND ALL MANHOLE/INSPECTION CHAMBER INVERT LEVELS SHOWN ARE FOR THE OUT GOING PIPE (UNLESS OTHERWISE INDICATED IN THE DRAWING)
 5. ALL VITRIFIED CLAY PIPES AND FITTINGS TO BE IN ACCORDANCE WITH BS EN206 & BS 85
 6. ALL CIRCULAR CONCRETE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH BS EN1916 & BS 5911 AND BE STRENGTH CLASS 120
 7. ALL STRUCTURED WALL PLASTIC PIPES AND FITTINGS TO BE IN ACCORDANCE WITH WATER INDUSTRY SPECIFICATION 4-35-01. MAXIMUM LENGTH OF PIPE FOR LAYING IS 3m.
 8. PIPES AND FITTINGS ARE TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS
 9. ALL CONNECTIONS TO GULLIES & DRAINAGE CHANNELS TO BE 1500 UNLESS NOTED OTHERWISE
 10. ALL CONNECTIONS FROM DRAINAGE CHANNELS TO BE TRAPPED AND RODABLE
 11. COVER LEVELS INDICATED IN MANHOLE SCHEDULES ARE APPROXIMATE AND SHOULD BE CHECKED AGAINST ARCHITECT'S DETAILED LEVEL DRAWINGS
 12. WHERE THE COVER TO PIPES IS LESS THAN 1200mm IN TRAFFICKED AREAS & 800mm IN OTHER AREAS, THEN CONCRETE PROTECTION IS TO BE PROVIDED. NB UNTIL FINAL SURFACE IS CONSTRUCTED, HEAVY TRAFFIC IS NOT TO BE ALLOWED OVER PIPE TRENCHES WITHOUT SPECIFIC PROTECTION MEASURES IN PLACE
 13. SOFT SPOTS IN THE BOTTOM OF TRENCHES SHALL BE REMOVED AND BACKFILLED WITH COMPACTED TYPE 1 SUB-MATERIAL, PIPE BEDDING MATERIAL OR LEAN MIX CONCRETE
 14. IF A SYPHONIC ROOF DRAINAGE SYSTEM IS PROPOSED THE SYPHONIC PIPEWORK IS TO BE CONTINUED BELOW GROUND TO THE FIRST EXTERNAL MANHOLE, WHICH IS TO BE VENTED TO BREAK THE SYPHONIC ACTION
 15. ALL DRAINAGE COVERS IN PEDESTRIAN AREAS ARE TO BE FITTED WITH HEEL SAFE LIDS
 16. IF A PILED OR SUSPENDED SLAB IS PROPOSED ALL INTERNAL DRAINAGE IS TO BE SUSPENDED FROM THE SLAB WITH ROCKER PIPES USED AT THE EDGES OF THE BUILDING
 17. ALL DOMESTIC FOUL DRAINAGE MUST BE KEPT SEPARATE FROM CONDENSATE DRAINAGE UNTIL OUTSIDE THE BUILDING WITH STEPS TAKEN TO TRAP ANY ODOURS
 18. ALL FOUL RUNS MUST BE VENTED IN ACCORDANCE WITH BUILDING REGULATIONS. VENT LOCATIONS TO BE PROVIDED BY ABOVE GROUND DRAINAGE DESIGNER
 19. REGARDLESS OF MANHOLE POSITIONS SHOWN ON THIS DRAWING, THE ACCESS LIDS ARE TO BE POSITIONED AWAY FROM MAIN WHEEL LINES AND SQUARE TO KERBS AND OTHER SURFACE FEATURES SUCH AS YARD SLAB JOINTS
 20. ALL TEMPORARY DRAINAGE IS THE RESPONSIBILITY OF THE CONTRACTOR
 21. THE CONTRACTOR SHALL PROVIDE LAND DRAINAGE AS NECESSARY TO PREVENT RUNOFF FROM LANDSCAPED AREAS WASHING SILT ONTO HARDSTANDINGS AND THIRD PARTY LAND
 22. THE CONTRACTOR IS RESPONSIBLE FOR SEWER CONNECTION APPROVALS UNLESS NOTED OTHERWISE
 23. ALL MANHOLE LIDS TO BE PAINTED BLACK IMMEDIATELY PRIOR TO PRATICAL COMPLETION
 24. JUST PRIOR TO PRACTICAL COMPLETION OF THE PROJECT THE CONTRACTOR SHALL CLEAN ALL DRAIN RUNS BY JETTING AND REMOVING ALL DEBRIS FROM SITE. NO DEBRIS SHALL BE PERMITTED TO ENTER THE PUBLIC SEWER AND/OR WATERCOURSE SYSTEM. ONCE THE DRAINAGE SYSTEM HAS BEEN FULLY CLEANED OUT A CCTV SURVEY OF THE COMPLETE PIPE NETWORK (INCLUDING ATTENUATION TANKS AND CARRIER CHANNELS) SHALL BE CARRIED OUT, WITH A COPY BEING SENT TO THE ENGINEER. VISUAL INSPECTIONS (THROUGH CCTV SURVEY) SHALL BE CARRIED OUT BY A QUALIFIED AND APPROVED CONTRACTOR, AND IN ACCORDANCE WITH THE 'W5A/FWR MODEL CONTRACT DOCUMENT FOR SEWER CONDITION INSPECTIONS'. THE AS BUILT INVERT AND COVER LEVELS SHALL BE RECORDED BY THE CONTRACTOR AND PASSED ON TO THE ENGINEER FOR REVIEW
 25. ALL SEWERS AND DRAINS ARE TO BE TESTED IN ACCORDANCE WITH SEWERAGE SECTOR GUIDANCE APPENDIX C, SECTION E7
 26. ALL TANK DESIGNS SHALL BE BY SPECIALIST AND A DIRECT WARRANTY FOR PRODUCT LIABILITY, DESIGN AND INSTALLATION SHALL BE PROVIDED BY THE SPECIALIST SUB-CONTRACTOR. ANY ASSOCIATED DESIGN CONSULTANT WARRANTIES MUST BE BACK TO BACK WITH THE TANK SUPPLIER WARRANTY
 27. IF THE CONTRACTOR CHOOSES TO USE GEOCELLULAR TANKS BENEATH LIGHTER LOADED AREAS SUCH AS CAR PARKS, THE CONTRACTOR SHOULD ENSURE THAT THE INFORMATION BELOW IS FULLY CONSIDERED BY THE SPECIALIST SUBCONTRACTOR.
 - a. TANKS MUST BE DESIGNED AS EARTH RETAINING STRUCTURES IN ACCORDANCE WITH CIRIA DOCUMENTS C87 AND C737 'STRUCTURAL DESIGN AND GEOTECHNICAL DESIGN OF MODULAR GEOCELLULAR DRAINAGE SYSTEMS'
 - b. PARTICULAR CONSIDERATION MUST BE GIVEN TO LATERAL SURCHARGE LOADS FROM VEHICLES POSITIONED TO THE SIDE OF THE TANKS
 - c. THE DESIGNER HAS CONSIDERED THE SOIL INVESTIGATION REPORT, WATER LEVELS AND INSTALLATION LEVELS IN THEIR DESIGN
 - d. ACCESS FOR MAINTENANCE AND INSPECTION (I.E. JETTING AND RODDING) WITHIN THE TANK STRUCTURE ITSELF SHOULD BE PROVIDED FOR APPROVAL AND BE IN ACCORDANCE WITH CIRIA 697 REQUIREMENTS BY PROVISION OF A FULLY CCTV ACCESSIBLE PIPE (WHETHER A SOLID, PERFORATED OR A HALF HEIGHT PIPE SYSTEM IS UTILISED) THROUGH THE WHOLE LENGTH OF THE TANK

DESIGNER RISK INFORMATION	
IN ADDITION TO THE HAZARDS/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING:-	
CONSTRUCTION:	EXISTING NWL SEWER - WORKING NEAR EASEMENT. EXISTING HIGH PRESSURE GAS MAIN IN VICINITY. WORKING NEXT TO OPEN HIGHWAY
MAINTENANCE/CLEANING:	
DECOMMISSIONING/DEMOLITION:	
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT	

KEY	
●	PROPOSED SURFACE WATER MANHOLE
●	PROPOSED FOUL WATER MANHOLE
—	PROPOSED FOUL WATER PIPE
—	PROPOSED SURFACE WATER PIPE
—	PROPOSED SURFACE WATER CHANNEL
●	PROPOSED SURFACE WATER GULLY
●	PROPOSED FOUL WATER GULLY
AC	ACCESS CHAMBER
OC	OUTLET CHAMBER

Rev	Date	Amendment	MR	TM
P02	26.06.23	FOR INFORMATION		
P01	20.06.23	FOR INFORMATION		
Rev	Date	Amendment	MR	TM
 Consulting Engineers^{ltd} Southgate House, 38 Southgate, Wakefield WF1 3TL T: 01924 811 000 mjm.co.uk				
Project: INTERCHANGE 26, UNIT 3				
Client: INTERCHANGE 26 LLP				
Drawing Title: PROPOSED DRAINAGE LAYOUT				
 MR MJM Ref: 8495		 TM Scale: 1:250		 TM Sheet Size: A0
Revision Status: P02		Suitability Status: S2		Date: JUN '23
FOR INFORMATION				
Drawing Reference: Project - Originator - Zone - Level - File Type - Discipline - Number				
8495-MJM-XX-XX-DR-C-9300				