

ADDITIONAL DRAINAGE COMMENTS AND PROPOSED WORKS		
ISSUE / ITEM	COMMENTS	ADDITIONAL WORK AND ACTIONS
SA1	IN APRIL 2025 FOUR BREKES (FULLY COMPLIANT) TESTS WERE UNDERTAKEN IN THE OPEN SPACE AREA WHERE THE CURRENT SA1 IS LOCATED. ST1 REPORT 10194 (DATED 22.07.2025). THESE TESTS WERE UNDERTAKEN BELOW THE LEVEL OF THE INSTALLED SA1. THESE TESTS WERE UNDERTAKEN IN THE OPEN SPACE AREA WHERE THE CURRENT SA1 IS LOCATED. ST1 REPORT 10194 (DATED 22.07.2025). THESE TESTS WERE UNDERTAKEN BELOW THE LEVEL OF THE INSTALLED SA1. THESE TESTS WERE UNDERTAKEN IN THE OPEN SPACE AREA WHERE THE CURRENT SA1 IS LOCATED. ST1 REPORT 10194 (DATED 22.07.2025). THESE TESTS WERE UNDERTAKEN BELOW THE LEVEL OF THE INSTALLED SA1.	ENTIRE SA1 (INCLUDING MAINTENANCE MANHOLES AND PERFORATED PIPES) TO BE RECONSTRUCTED BY A NEW 1000mm x 1.2m HAOD. THE AN AREA IS PRESENTED ON THE DRAINAGE DRAWING AND WAS TESTED AS PER DEVELOPMENT TESTS. FROM THE APRIL 2025 TESTS THE WORST INFILTRATION RATE WAS ADOPTED FOR THE CALCULATION OF THE DRAINAGE SA1. APPROVED 2025 TESTS (INCLUDING SHOWN FULLY) FOLLOWING BREKES INFILTRATION AND A LARGE NUMBER OF BREKES TESTING MITIGATED THE UNCERTAINTY OF INFILTRATION POTENTIAL WITH BETTER INFILTRATION RATES OBTAINED AT A DEEPER DEPTH. WHEN COMPARED TO THE CURRENTLY INSTALLED SA1 - THE REINSTATED SA1 WILL BE ABLE TO CATCH FOR ALL THE POSITIVELY DRAINED AND PERMEABLE PAVING SYSTEM AREAS.
SA2	SA2 STRUCTURE IS TO REMAIN IN-SITU AS INSTALLED. PRE-DEV BREKES TESTING BY LEAP (REPORT LK2368 AND SC20240701) PROVIDED THAT LOCAL AREA AND INFILTRATION POTENTIAL THEREFORE WATER ACCUMULATED WITHIN SA2 WOULD INFILTRATE INTO THE SURROUNDING SOIL WITH TIME. HOWEVER, TO IMPROVE THE OVERALL DRAINAGE SITUATION AND FEASIBILITY FOR THE SITE IT IS PROPOSED TO UNDERTAKE FURTHER ACTIONS.	IGNORING INFILTRATION POTENTIAL OF SA2 IT IS PROPOSED TO INSTALL OVERFLOW FROM THE SW SYSTEM - CURRENTLY CONNECTED TO SA2 - AND OVERFLOW WATER INTO THE PERMEABLE PAVING SYSTEM AND THENCE TO SA1. WITH THIS REVISED DRAINAGE ARRANGEMENT SHOULD SA2 INFILTRATION POTENTIAL AND FILL WATER WOULD BE DIRECTED TO SA1 AND THIS NOT INCREASE FLOODING RISK ON OR OFF SITE.
SA3 AND SA4	SA3 AND SA4 STRUCTURES ARE TO REMAIN IN-SITU AS INSTALLED. SA3 AND SA4 WERE RE-TESTED AS INSTALLED IN APRIL 2025. ST1 REPORT 10194 (DATED 22.07.2025). TESTING PROVIDED THAT LOCAL AREA HAS INFILTRATION POTENTIAL THEREFORE WATER ACCUMULATED WITHIN SA3 AND SA4 WOULD INFILTRATE INTO THE SURROUNDING SOIL WITH TIME. HOWEVER, TO IMPROVE THE OVERALL DRAINAGE SITUATION AND FEASIBILITY FOR THE SITE IT IS PROPOSED TO UNDERTAKE FURTHER ACTIONS.	IGNORING INFILTRATION POTENTIAL OF SA3 AND SA4 IT IS PROPOSED TO INSTALL OVERFLOW FROM THE SW SYSTEM - CURRENTLY CONNECTED TO SA3 OR SA4 - AND OVERFLOW WATER INTO THE PERMEABLE PAVING SYSTEM AND THENCE TO SA1. WITH THIS REVISED DRAINAGE ARRANGEMENT SHOULD SA3 AND SA4 INFILTRATION POTENTIAL WAS TO FILL WATER WOULD BE DIRECTED TO SA1 AND THIS NOT INCREASE FLOODING RISK ON OR OFF SITE.
PERMEABLE PAVING (PP)	PP STRUCTURE IS TO REMAIN IN-SITU AS INSTALLED. PRE-DEV BREKES TESTING BY LEAP (REPORT LK2368 AND SC20240701) PROVIDED THAT LOCAL AREA AND INFILTRATION POTENTIAL THEREFORE WATER ACCUMULATED WITHIN PP WOULD INFILTRATE INTO THE SURROUNDING SOIL WITH TIME. HOWEVER, TO IMPROVE THE OVERALL DRAINAGE SITUATION AND FEASIBILITY FOR THE SITE IT IS PROPOSED TO UNDERTAKE FURTHER ACTIONS.	IGNORING INFILTRATION POTENTIAL OF PP IT IS PROPOSED TO INSTALL OVERFLOW FROM THE SW SYSTEM - CURRENTLY CONNECTED TO SA3 OR SA4 - AND OVERFLOW WATER INTO THE PERMEABLE PAVING SYSTEM AND THENCE TO SA1. WITH THIS REVISED DRAINAGE ARRANGEMENT SHOULD SA3 AND SA4 INFILTRATION POTENTIAL WAS TO FILL WATER WOULD BE DIRECTED TO SA1 AND THIS NOT INCREASE FLOODING RISK ON OR OFF SITE.
OVERFLOW BASIN (OBS)	THIS BASIN IS PROVIDED FOR THE SURFACE WATER VOLUMES OVERFLOWING FROM THE ACTUAL SA1 STRUCTURE AND FOLLOWING THE EXISTING DRAINAGE.	THE OVERFLOW BASIN MUST BE REINSTATED FOLLOWING SA1 RECONSTRUCTION. BASIN IS TO BE INSTALLED TO ITS BASE IS FLAT AND SET AT A LEVEL OF 10.440m WITH THE BASE AREA OF PROPOSED 10.440m. THE TOP BANK IS TO BE SET NOT LOWER THAN 10.44m HAD WITH THE TOP BANK FLAT AREA MEASURING PROPERLY AS WHEN MEASURED AT A LEVEL (CONTOUR) OF 10.44m HAD.
SA1	SA1 TO BE ALTERED TO ALLOW A CONNECTION FROM THE NEARBY PERMEABLE PAVING OVERFLOW ARRANGEMENT - SEE DRAINAGE LAYOUT.	
S18	S18 MANHOLES TO BE REINSTALLED AS PART OF THE SA1 RECONSTRUCTION - SEE DRAINAGE LAYOUT AND CONSTRUCTION DETAIL.	
S15	S15 MANHOLES TO BE REINSTALLED AS PART OF THE SA1 RECONSTRUCTION - SEE DRAINAGE LAYOUT AND CONSTRUCTION DETAIL.	
S16	S16 TO BE ALTERED TO ALLOW A CONNECTION FROM THE NEARBY PERMEABLE PAVING OVERFLOW ARRANGEMENT - SEE DRAINAGE LAYOUT.	
S17, S21, S25, S24, S25, S26, S42, S43, S44, S45	CHAMBER TO BE ALTERED TO CREATE AN OVERFLOW CONNECTION INTO THE NEARBY PERMEABLE PAVING SYSTEM SUB-BASE. OVERFLOW CONNECTION TO TERMINATE BY MEANS OF DIFFUSER UNITS, I.E. PERMAVOID OR SIMILAR SUITABLE.	
S37, S41	EXISTING CHAMBER TO BE ALTERED TO RECEIVE THE PIPED CONNECTION FROM THE NEARBY PP OVERFLOW ARRANGEMENT.	
S38, S39, S40	NEW CHAMBERS TO BE INSTALLED TO RECEIVE THE PIPED CONNECTION FROM THE PP OVERFLOW ARRANGEMENT.	
WB	WATER BUTTS TO BE ADDED	

- NOTES:
- CDM REGULATIONS 2015
 - IN COMPLIANCE WITH CDM 2015 ODYSSEY HAS FOLLOWED ITS DESIGN RISK MANAGEMENT PROCESS FOR HAZARD ELIMINATION AND RISK REDUCTION IN DEVELOPING THE ODYSSEY DESIGNS SHOWN ON THIS DRAWING. THERE IS AN OVERHEAD POWER CABLE AT THE SITE'S SOUTHERN BOUNDARY. ANY OTHER RESIDUAL RISKS ARE THOSE THAT WOULD NORMALLY BE EXPECTED BY COMPETENT PERSONS OR CONTRACTORS WITH NECESSARY SKILLS KNOWLEDGE AND EXPERIENCE TO BE ENGAGED ON WORK OF THIS NATURE OR TYPE.
 - THIS DRAWING HIGHLIGHTS (IN RED COLOUR) THE ELEMENTS OF THE INSTALLED SYSTEM THAT ARE PROPOSED TO BE ALTERED OR NEW ELEMENTS THAT ARE PROPOSED TO BE ADDED. ALL OTHER ELEMENTS OF THE INSTALLED SYSTEM ARE PROPOSED TO BE LEFT IN-SITU AS THEY ARE.
 - REFER TO DRAWINGS 21-254-701 AND 21-254-702 FOR FULL DETAILS OF THE DRAINAGE SYSTEM.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS ISSUED BY THE ARCHITECT AND ENGINEER.

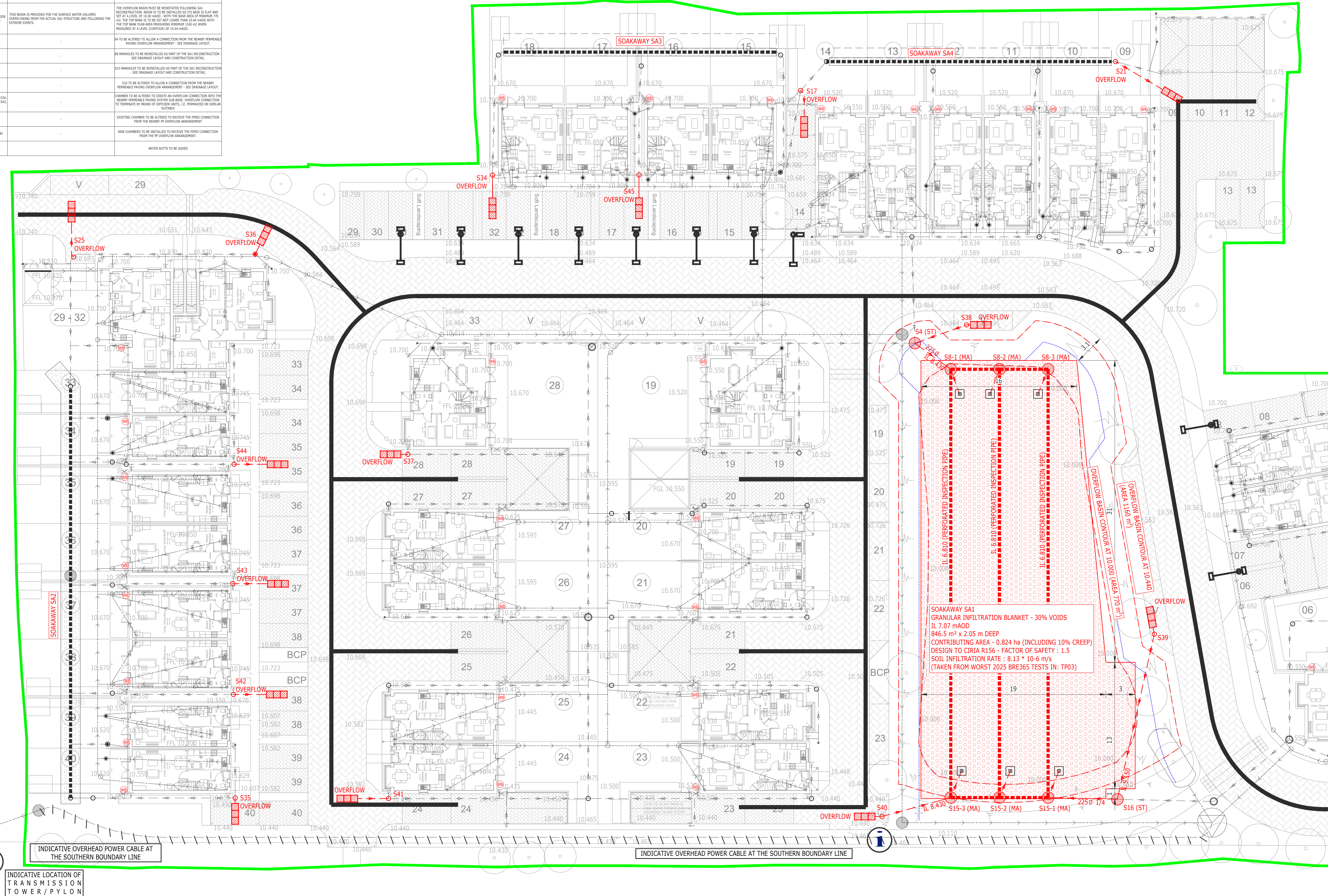
- PLEASE REFER TO INFODRAINAGE CALCULATIONS '21-254 SA1_RevB_All In - OVERFLOWING NETWORK (DETAILED) (DATED 12.03.2026) FOR THE UPDATED SA1 CALCULATIONS.
- ALL DIMENSIONS ARE SHOWN IN 'm' UNLESS STATED OTHERWISE.
- HIGHEST RECORDED GROUNDWATER DURING 2025/2026 MONITORING SEASON OBSERVED AT 6.07 mAO (IN BH02 LOCATION). REFER TO SOUTHERN TESTING DRAWING STL_116050, FIGURE 2 FOR GROUNDWATER MONITORING BOREHOLES LOCATION.
- THE PROPOSED WATER BUTT IS A POLYPROPYLENE 'WICKES' WATER BUTT KIT - 210 LITRES' PRODUCT (OR SIMILAR) PROVIDING CAPACITY OF 210 LITRES



- KEY TO HEALTH AND SAFETY SYMBOLS
- ABNORMAL OR UNUSUAL RESIDUAL RISKS ASSOCIATED WITH THE DESIGN OUTCOMES SHOWN ON THIS DRAWING MAYBE INDICATED BY MEANS OF THE FOLLOWING SYMBOLS.
- INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.
 - INDICATES A RESIDUAL RISK FOR INFORMATION.
 - INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.
 - INDICATES A RESIDUAL RISK AS A WARNING.

DRAINAGE KEY:
NOTE THAT IN THE RED COLOUR ARE SHOWN ELEMENTS OF THE SYSTEM TO BE ALTERED OR ADDED

- FWMH - EXISTING FOUL WATER MANHOLE
- FWMH - PRIVATE FOUL WATER MANHOLE (PCC RINGS) - MIN 1.2m DIA
- FW-IC3 - PRIVATE FOUL WATER INSPECTION CHAMBER - MIN 0.45m DIA
- FW-IC4 - PRIVATE FOUL WATER INSPECTION CHAMBER - MIN 0.25m DIA
- SWMH - PRIVATE SURFACE WATER MANHOLE (PCC RINGS)
- SW-IC3 - PRIVATE SURFACE WATER INSPECTION CHAMBER - MIN 0.6m DIA
- SW-IC3 - PRIVATE SURFACE WATER INSPECTION CHAMBER - MIN 0.75m x 0.60m
- SW-IC3 - PRIVATE SURFACE WATER INSPECTION CHAMBER - MIN 0.45m DIA
- SW-IC4 - PRIVATE SURFACE WATER INSPECTION CHAMBER - MIN 0.25m DIA
- PRIVATE FOUL WATER PUMP STATION - ALL DETAILS SUBJECT TO A SPECIALIST DESIGN
- RODDING EYE
- EXISTING PRIVATE FOUL WATER SEWER
- PRIVATE FOUL RISING MAIN
- PRIVATE FOUL WATER DRAINAGE
- PRIVATE SURFACE WATER DRAINAGE
- DRAINAGE CHANNEL (I.E. ACO M1000 0.0 OR SIMILAR APPROVED)
- PERFORATED DISTRIBUTOR PIPE (CONNECTION LINK)
- PERMEABLE PAVING INFILTRATION TRENCH
- PERMEABLE PAVING INFILTRATION TRENCH - GEOMEMBRANE WRAPPED
- PERMEABLE PAVING INTER-CONNECTION
- OVERFLOW ARRANGEMENT (GULLY)
- SW CHAMBER WITH MINIMUM 300mm DEEP SILT TRAP
- DEDICATED ACCESS FOR MAINTENANCE PURPOSES (I.E. CCTV, JETTING)
- INFILTRATION FEATURE
- PERMEABLE PAVING - REFER TO DRAWING 21-254-311, 312 FOR DETAILS
- PROPOSED FINISHED FLOOR LEVEL
- PROPOSED FINISHED SURFACE LEVEL
- PERMAVOID DIFFUSER UNIT (SPECIFIED BY THE MANUFACTURER)
- WATER BUTT - LOCATIONS POSITIONED ON PLAN ARE INDICATIVE AND ARE TO BE ADJUSTED ON SITE DURING INSTALL TO REFINE THE POSITION WHERE NEEDED
- 3.1 m OFFSET MEASURED FROM THE KERB FACE



F	NOTE REGARDING WATER BUTT TYPE ADDED	AK	BAC	BAC	18.08.26
E	OVERFLOW ADDED AT S17, S25, S42, S43, S44, S45.	AK	BO	BAC	12.06.26
D	SA1 CONTRIBUTING AREA UPDATED	AK	BO	BAC	30.03.26
C	GROUNDWATER MONITORING RESULTS NOTED, SA1 ADJUSTED	AK	BO	BAC	05.03.26
B	SA1 SHAPE ADJUSTED	AK	BO	BAC	03.11.25
A	SA1, SA3 AND SA4 UPDATES TO ADDRESS ARUN DC COMMENTS OF 12/09/2025	AK	BO	BAC	09.10.25
Rev	Amendments	Dm	Chk	App	Date
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Job Title FORMER SHRUBLANDS NURSERY ROUNDSTONE LANE, ANGMERING					
Drawing Title DRAINAGE ALTERATION WORKS					
Client SIGMA HOMES					
Scale 1:200 @A1	Date JUL 2025	Designed AK			
Drawn AK	Checked BO	Approved BAC			
Job No 21-254	Drawing No 21-254-703	Rev F			