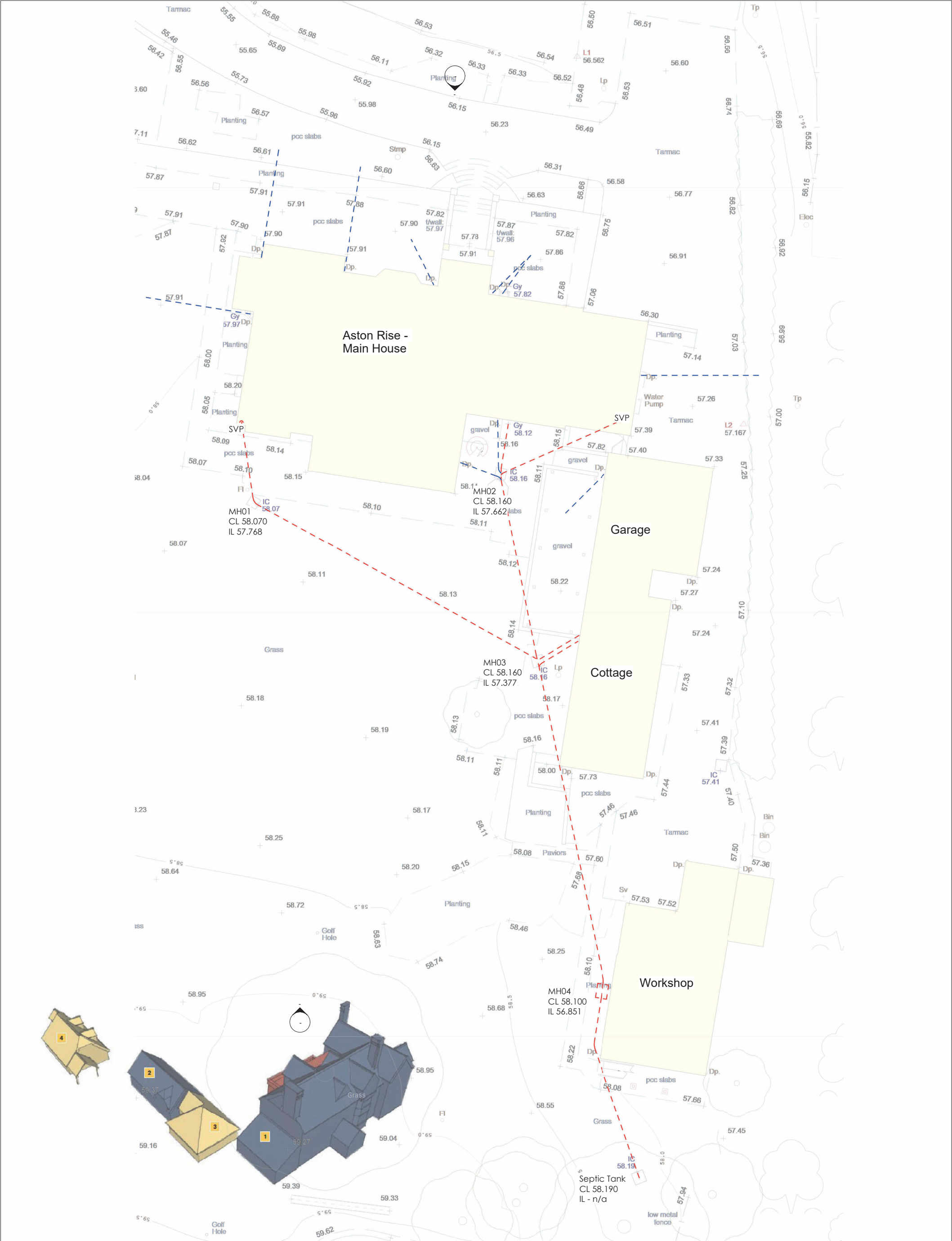




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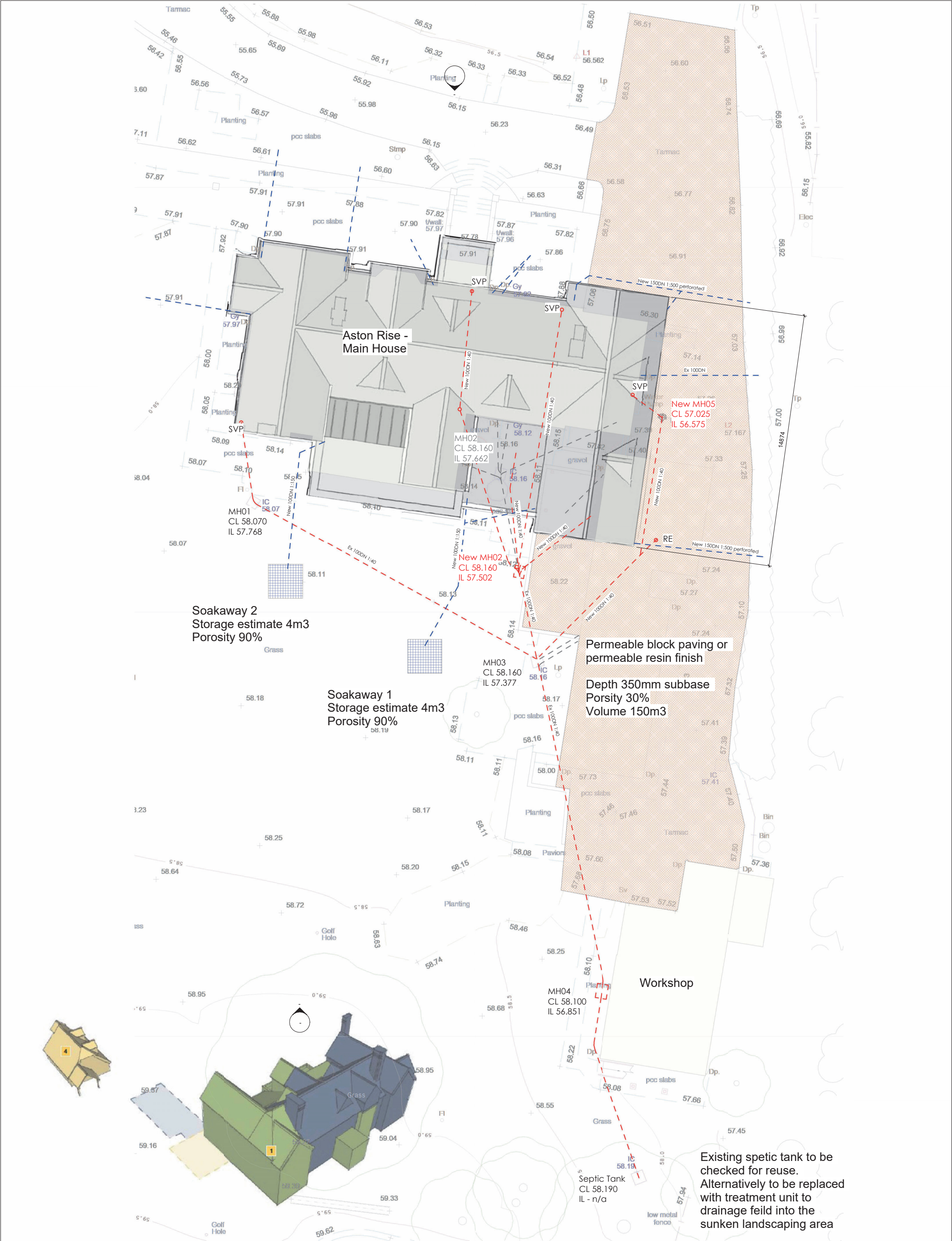
General Notes:

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Rev	Comments	By	Date
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Drawing Title		Drawn By				
D.01 Existing drainage layout		AP				
		Designed By				
		JW				
		Checked By				
		JW				
		Issue Date				
		Scale				
		1 : 100				
Project No.	Origin	Level	Type	Role	No.	Revision
2600_A	CSD	ZZ	DR	S	00-1001	



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Rev | Comments

By | Date

Drawing Title

D.02 Proposed
drainage layout

Drawn By

AP

Designed By

JW

Checked By

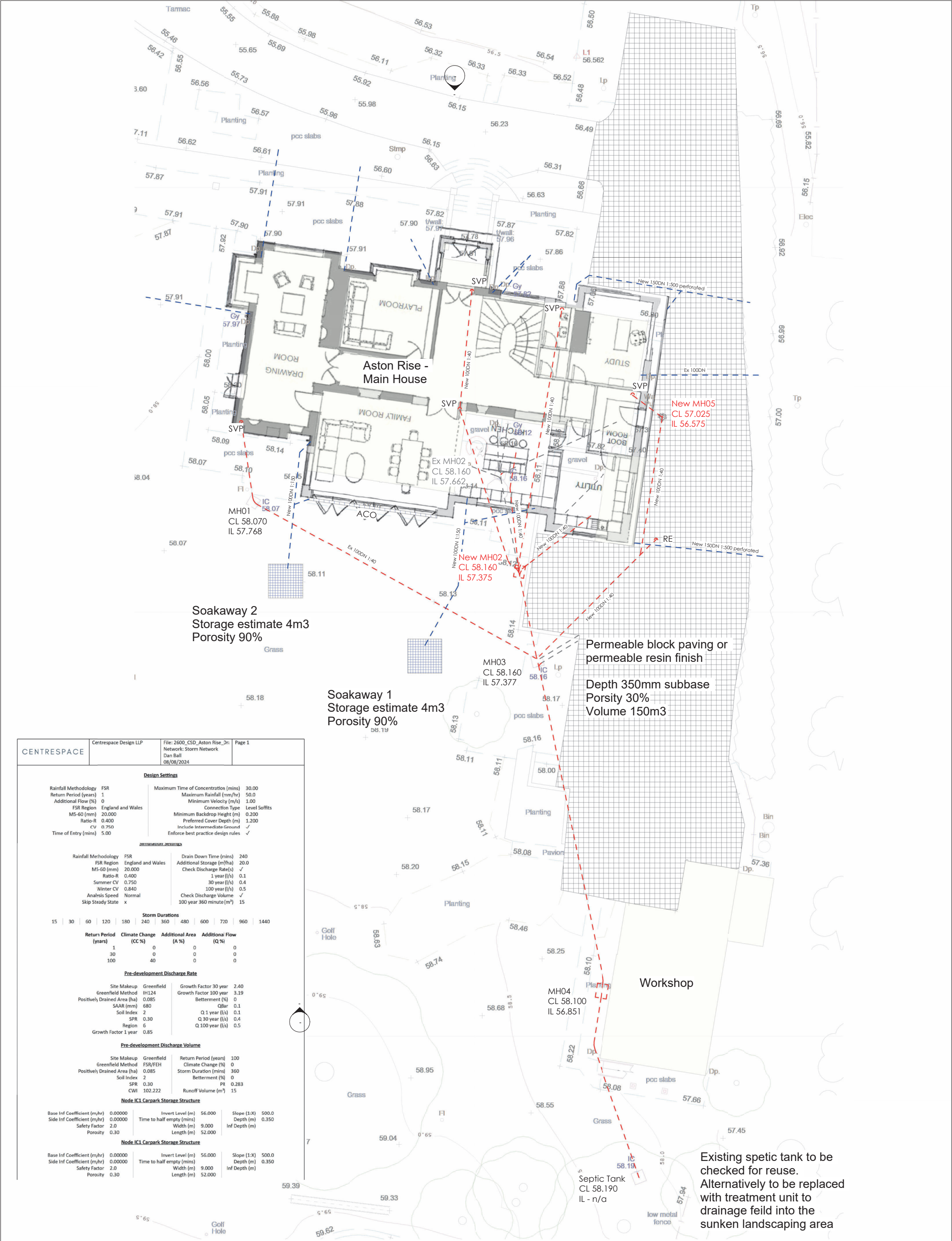
JW

Issue Date

Scale

1 : 100

Project No.	Origin	Level	Type	Role	No.	Revision
2600_A	CSD	ZZ	DR	S	00-1002	



CENTRESPACE		Centrespace Design LLP	File: 2600_CSD_Aston Rise_Dr Network: Storm Network Dan Ball 08/08/2024	Page 1
Design Settings				
Rainfall Methodology	FSR	Maximum Time of Concentration (mins)	30.00	
Return Period (years)	1	Maximum Rainfall (mm/hr)	50.0	
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00	
FSR Region	England and Wales	Connection Type	Level Soffits	
M5-60 (mm)	20.000	Minimum Backdrop Height (m)	0.200	
Ratio-R	0.400	Preferred Cover Depth (m)	1.200	
CV	0.750	Include Intermediate Ground	✓	
Time of Entry (mins)	5.00	Enforce best practice design rules	✓	
Performance Settings				
Rainfall Methodology	FSR	Drain Down Time (mins)	240	
FSR Region	England and Wales	Additional Storage (m³/ha)	20.0	
M5-60 (mm)	20.000	Check Discharge Rate(s) ✓		
Ratio-R	0.400	1 year (l/s)	0.1	
Summer CV	0.750	30 year (l/s)	0.4	
Winter CV	0.840	100 year (l/s)	0.5	
Analysis Speed	Normal	Check Discharge Volume ✓		
Skip Steady State	x	100 year 360 minute (m³)	15	
Storm Durations				
15	30	60	120	180
240	360	480	600	720
960	1440			
Return Period				
Climate Change	Additional Area	Additional Flow		
(years)	(CC %)	(A %)	(Q %)	
1	0	0	0	
30	0	0	0	
100	40	0	0	
Pre-development Discharge Rate				
Site Makeup	Greenfield	Growth Factor 30 year	2.40	
Greenfield Method	W124	Growth Factor 100 year	3.19	
Positively Drained Area (ha)	0.085	Betterment (%)	0	
SAAR (mm)	680	Qbar	0.1	
Soil Index	2	Q 1 year (l/s)	0.1	
SPR	0.30	Q 30 year (l/s)	0.4	
Region	6	Q 100 year (l/s)	0.5	
Growth Factor 1 year	0.85			
Pre-development Discharge Volume				
Site Makeup	Greenfield	Return Period (years)	100	
Greenfield Method	FSR/FEH	Climate Change (%)	0	
Positively Drained Area (ha)	0.085	Storm Duration (mins)	360	
Soil Index	2	Betterment (%)	0	
SPR	0.30	PR	0.283	
CWI	102.222	Runoff Volume (m³)	15	
Node ICL Carpark Storage Structure				
Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	56.000	
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		
Safety Factor	2.0	Width (m)	9.000	
Porosity	0.30	Length (m)	52.000	
Node ICL Carpark Storage Structure				
Base Inf Coefficient (m/hr)	0.00000	Invert Level (m)	56.000	
Side Inf Coefficient (m/hr)	0.00000	Time to half empty (mins)		
Safety Factor	2.0	Width (m)	9.000	
Porosity	0.30	Length (m)	52.000	

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By | Date

Drawing Title

D.03 Proposed
Ground floor
drainage layout

Project No.	Origin	Level	Type	Role	No.	Revision
2600_A	CSD	ZZ	DR	S	00-1003	

Drawn By

AP

Designed By

JW

Checked By

JW

Issue Date

Scale

1 : 100