

Drainage General Arrangement
(Scale 1:1000)



Image B (IB)

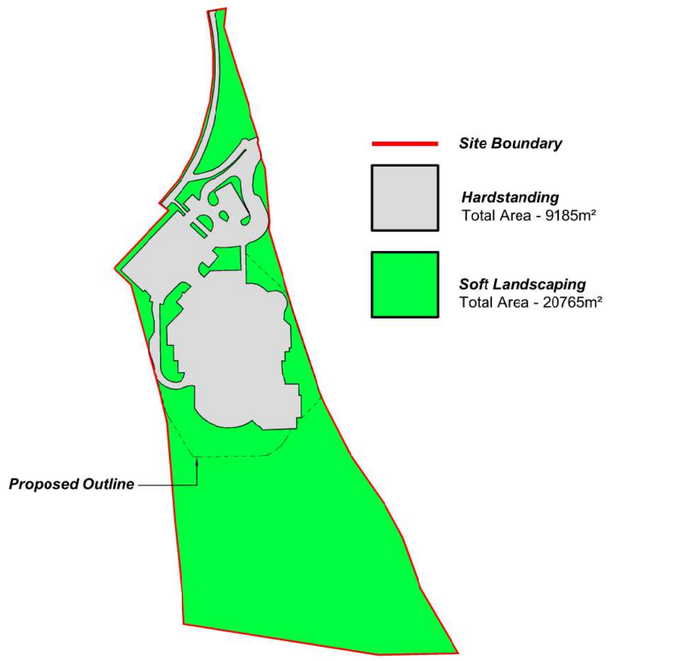
Image A (IA)



Image C (IC)



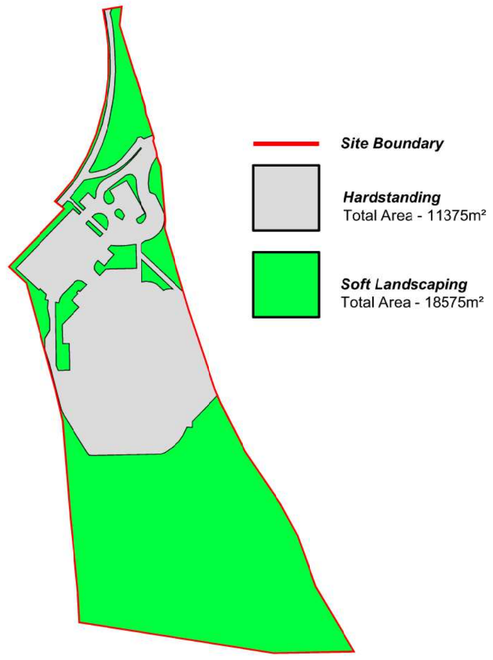
Image D (ID)



Existing Topographic Survey
(Scale 1:2500)

Existing Areas
- Site = 29950m²
- Hardstanding = 9185m²

31% Hardstanding



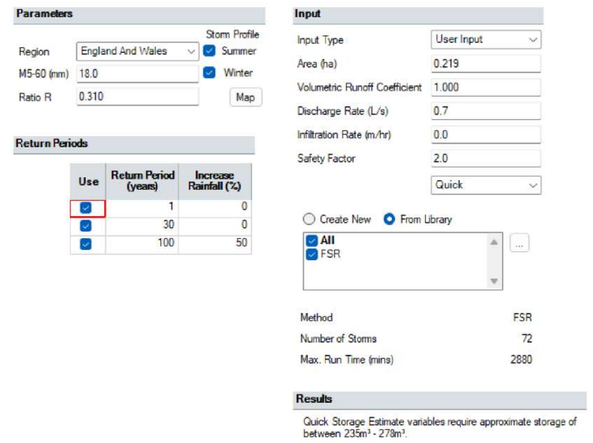
Proposed Site Layout
(Scale 1:2500)

Proposed Areas
- Site = 29950m²
- Hardstanding = 11375m²

38% Hardstanding

Drainage Strategy Information

Site Area		
2.995h - Brownfield		
Brownfield Runoff Rate		
4.3l/s (Existing Attenuated Surface Water)		
Run Off Co-Efficients		
Hardstanding Areas	-	1.00
Hardstanding Areas		
Building and Play Area	-	11375m²
Existing Hardstanding Area Built Upon	-	1955m²
Approximate Discharge Rate from Built Upon Area	-	0.92l/s
Minimum Hydrobrake Flow Control	-	0.70l/s
Proposed Betterment	-	24%
Proposed Hardstanding Area to be Attenuated	-	2190m²
Storage Volume Required	-	up to 278m³



Total Storage Volume Required - 235 to 278m^3

Drainage Key

- SMH?? — ***Proposed Surface Water Manhole***
- Ex. S?? — ***Existing Surface Water Manhole***
- ***Proposed Surface Water Drain***
- ***Existing Surface Water Drain***
- ***Proposed Attenuation Tank*** (Plastic Crates)
- ***Bioretention Area***
- ***Existing Swale***
- ***New Impermeable Surface***
- ***New Permeable Surface*** Closed System (Impermeable Subsoils)
- ***New SUDs Planter*** - picking up down pipes from roof

Client: **Wrexham County Borough Council**	Project: **Proposed Extension - Ysgol I.D. Hooson**	Drawing Title: **Drainage Strategy General Arrangement**	Drawing Number: **IDH-ENA-XX-XX-DR-C-5605**			
			Purpose of Issue: **Preliminary**			
			Revision: **P2**	P2	13.03.25	DRB	DRB	***Updated*** - SUDs Examples Added
			Status: **P**	Rev	Date	Drn	Chk	Details

Eng Assist
STRUCTURAL AND CIVIL ENGINEERING ASSISTANCE
Phone : **07763993213**
Email : **dave.barwell@engassist.co.uk**
Website : **engineeringassist.co.uk**