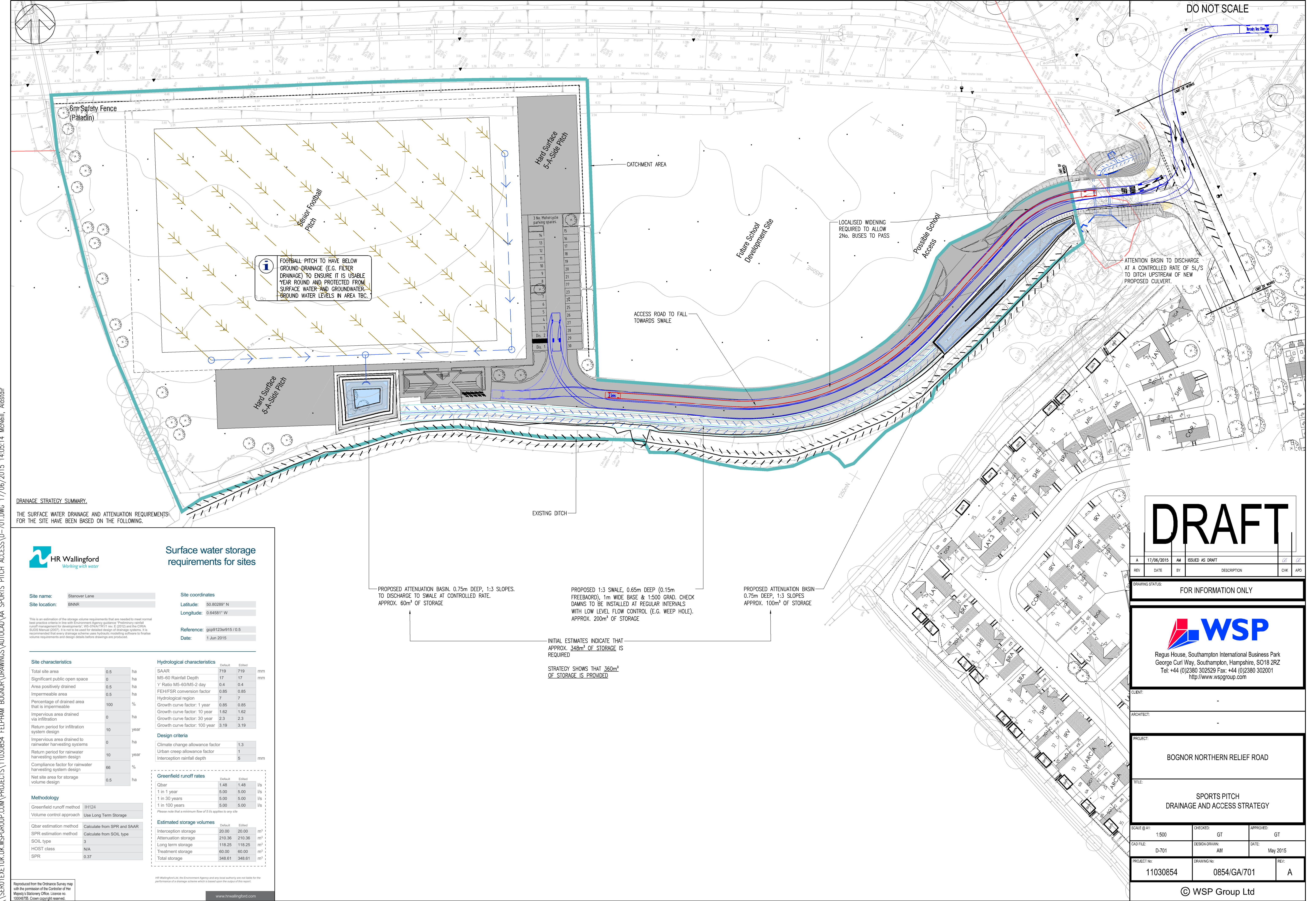


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DRAINAGE STRATEGY SUMMARY

THE SURFACE WATER DRAINAGE AND ATTENUATION REQUIREMENTS FOR THE SITE HAVE BEEN BASED ON THE FOLLOWING.



Surface water storage requirements for sites

Site name: Stanover Lane
 Site location: BNNR

Site coordinates
 Latitude: 50.80289° N
 Longitude: 0.84581° W

Reference: gcp#1233#915 / 0.5
 Date: 1 Jun 2015

Site characteristics

Total site area	0.5	ha
Significant public open space	0	ha
Area positively drained	0.5	ha
Impermeable area	0.5	ha
Percentage of drained area that is impermeable	100	%
Impervious area drained via infiltration	0	ha
Return period for infiltration system design	10	year
Impervious area drained to rainwater harvesting systems	0	ha
Return period for rainwater harvesting system design	10	year
Compliance factor for rainwater harvesting system design	66	%
Net site area for storage volume design	0.5	ha

Hydrological characteristics

	Default	Edited	
SAAR	719	719	mm
M5-60 Rainfall Depth	17	17	mm
'r' Ratio M5-60/M5-2 day	0.4	0.4	
FEH/FSR conversion factor	0.85	0.85	
Hydrological region	7	7	
Growth curve factor: 1 year	0.85	0.85	
Growth curve factor: 10 year	1.62	1.62	
Growth curve factor: 30 year	2.3	2.3	
Growth curve factor: 100 year	3.19	3.19	
Design criteria			
Climate change allowance factor	1.3		
Urban creep allowance factor	1		
Interception rainfall depth	5		mm

Greenfield runoff rates

	Default	Edited	
Qbar	1.48	1.48	l/s
1 in 1 year	5.00	5.00	l/s
1 in 30 years	5.00	5.00	l/s
1 in 100 years	5.00	5.00	l/s

Estimated storage volumes

	Default	Edited	
Interception storage	20.00	20.00	m
Attenuation storage	210.36	210.36	m
Long term storage	118.25	118.25	m
Treatment storage	60.00	60.00	m
Total storage	348.61	348.61	m

HR Wallingford Ltd, the Environment Agency and any local authority are not liable for the performance of a drainage scheme which is based upon the output of this report.

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This is an estimation of the storage volume requirements that are needed to meet normal best practice criteria in line with Environment Agency guidance "Provisionary capital runoff management for developments", WS-076A/TFR11 rev. E (2012) and the CIRIA GLUDS Manual (2007). It is not to be used for detailed design of drainage systems. It is recommended that every drainage scheme uses hydraulic modelling software to finalise volume requirements and design details before drawings are produced.

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DRAFT

A	17/06/2015	AM	ISSUED AS DRAFT		
REV	DATE	BY	DESCRIPTION	CHK	APD

DRAWING STATUS: FOR INFORMATION ONLY



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CLIENT:

ARCHITECT:

PROJECT: BOGNOR NORTHERN RELIEF ROAD

TITLE: SPORTS PITCH DRAINAGE AND ACCESS STRATEGY

SCALE @ A1:	1:500	CHECKED:	GT	APPROVED:	GT
CAD FILE:	D-701	DESIGN DRAWN:	AM	DATE:	May 2015

PROJECT NO:	11030854	DRAWING NO:	0854/GA/701	REV:	A
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