

```

graph TD
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    19013-100-09 --> 19013-100-11[19013-100-11]
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    19013-100-10 --> 19013-100-03[19013-100-03]
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    19013-100-05 --> 19013-100-02[19013-100-02]
  
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19013-100-10

19013-100-11

19013-100-12

19013-100-03

19013-100-04

19013-100-05

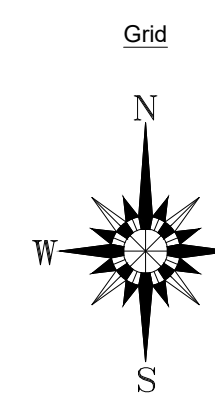
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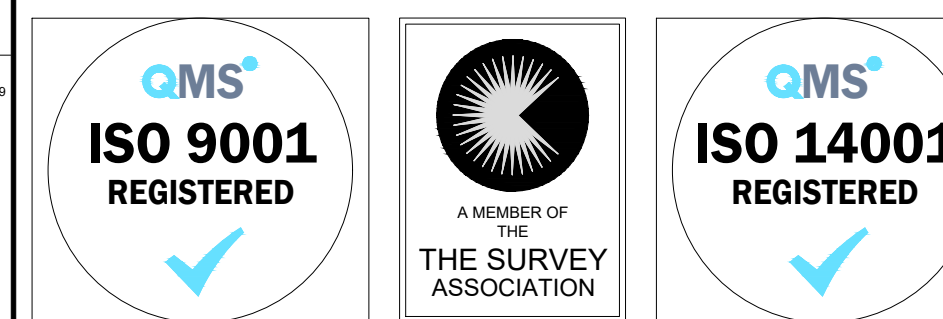
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19013-100-01

19013-100-02

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REV.	NOTES	DWN	D



Notes:

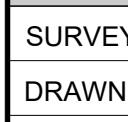
Grid is a local grid based on the OS GPS Active Network.
Local Grid derived using Survey Control Station P2 as fixed.
Shift 500,000m E 100,000m N (Scale Factor 0.9997730292)
Levels relate to OS GPS Active Network.
Sheet is North orientated unless stated.

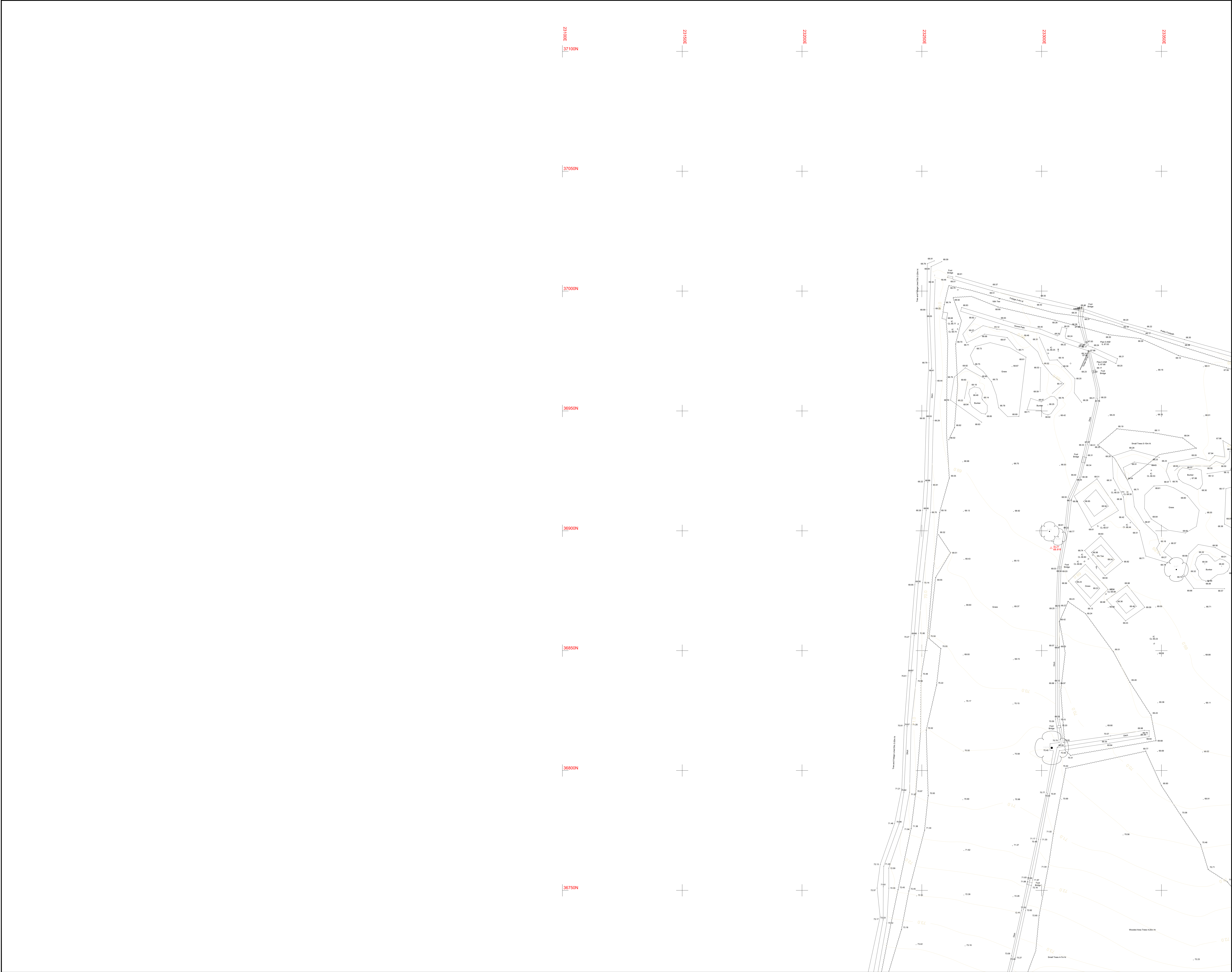
Maltby Surveys Ltd



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SURVEYED	LCD	ARCADIS CONSULTING
DRAWN	JG	
CHECKED	AKM	
		SCALE
		1/500 (A0 Sheet)
WEST OF IFIELD - STAGE 3		
TOPOGRAPHICAL SURVEY		
Job No	Rev	Drawing Number
19/013		19/013/100-10
Date:	FEB 2019	



Sheet Layout

19013-100-01		19013-100-02	
19013-100-03	19013-100-04	19013-100-05	
19013-100-06		19013-100-07	19013-100-08
19013-100-09		19013-100-10	19013-100-11
19013-100-12	19013-100-13	19013-100-14	19013-100-15
19013-100-16	19013-100-17	19013-100-18	

Grid

N

W E

S

LEGEND

BANKING

BUSHES & HEDGES

TREES

GATES

ABBREVIATIONS (WHERE APPLICABLE)

ARCH HEAD LEVEL

ARCH SPRINGER HEIGHT

AIR VALVE

BELLISHA BEACON

BRITISH TELECOM BOX

BROWWORK

BUS STOP

CABLE TV

CABLE MARKER

COLUMN

CONCRETE POST

EAVES LEVEL

ELECTRICAL COVER

ELECTRICITY CONTROL BOX

ELECTRICITY POLE

FLORWER BED

FINISHED FLOOR LEVEL

FIRE HYDRANT

FLOOR LEVEL

FLAG STAFF

GAS PIPE

GAS VALVE

GALLY

GATE STOP

INSPECTION COVER

INVERT LEVEL

LAMP POST

FENCES

BARBED WIRE FENCE

CORRUGATED IRON FENCE

CLOSE BOARD FENCE

CHAIN LINK FENCE

CHESTNUT PALING FENCE

FENCE POST

INTERLOCKED FENCE

IRON RAILING FENCE

MARKER

MONITORING WELL

NAME PLATE

OVERHEAD WIRES

PARKING METER

ROAD SIGN

ROOF LEVEL

RETAINING WALL

RAIN WATER PIPE

SOFT LEVEL

STOP COCK

STRUCTURAL SLAB LEVEL

THRESHOLD LEVEL

TELEGRAPH POLE

TELEPHONE CALL BOX

TOP OF KERB

TRAFFIC LIGHT

TOP OF WALL

UNABLE TO LIFT

UNABLE TO SURVEY

WATER METER

WATER LEVEL

WASTE PIPE

WATER TANK

WATER VALVE

MKR

MW

NB

CHW

PM

RD

RS

RE

RTP

SV

SC

SOP

SSL

ST

SVP

TL

TP

TB

TS

TL

TW

UTL

UTS

VP

WM

WL

WP

WT

VV

LRF

MBF

PCF

PF

PFH

PFV

SPF

TSF

REV. NOTES

DWN DATE

A

QMS ISO 9001 REGISTERED

QMS ISO 14001 REGISTERED

Notes:

Grid is a local grid based on the OS GPS Active Network. Local Grid derived using Survey Control Station P2 as fixed. Shift 500,000m E 100,000m N (Scale Factor 0.99977302923). Levels relate to OS GPS Active Network. Sheet is North orientated unless stated.

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SURVEYED LCD

DRAWN JG

CHECKED AKM

ARCADIS CONSULTING

SCALE

1/500 (A0 Sheet)

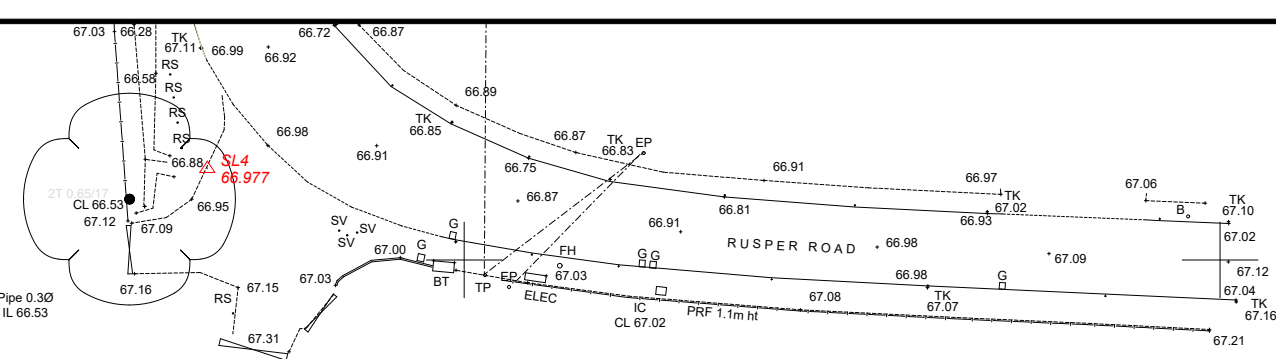
WEST OF IFIELD - STAGE 3

TOPOGRAPHICAL SURVEY

Job No Rev Drawing Number

19/013 19/013/100-12

Date: FEB 2019



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graph TD
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    19013-100-01 --> 19013-100-03
    19013-100-03 --> 19013-100-04
    19013-100-03 --> 19013-100-05
    19013-100-04 --> 19013-100-06
    19013-100-04 --> 19013-100-07
    19013-100-07 --> 19013-100-08
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    19013-100-09 --> 19013-100-10
    19013-100-09 --> 19013-100-11
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19013-100-01 19013-100-02

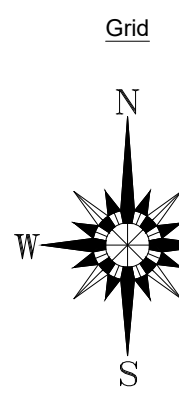
19013-100-03 19013-100-04 19013-100-05

19013-100-06 19013-100-07 19013-100-08

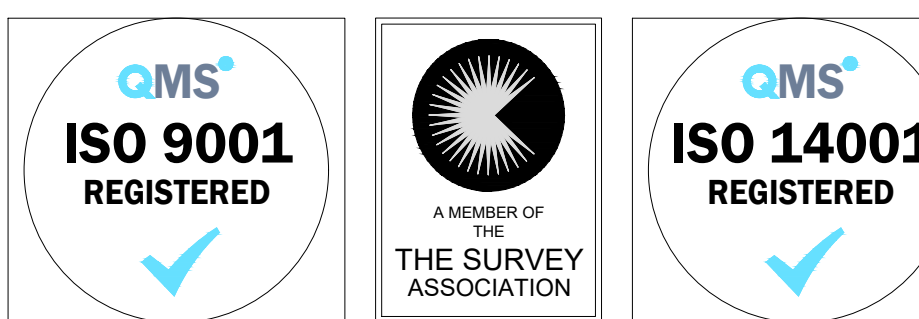
19013-100-09 19013-100-10 19013-100-11

19013-100-12 19013-100-13 19013-100-14 19013-100-15

19013-100-16 19013-100-17 19013-100-18 19013-100-19

[illegible]

REV.	NOTES	DWN	D



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SURVEYED	LCD	ARCADIS CONSULTING
DRAWN	JG	
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		SCALE
		1/500 (A0 Sheet)

WEST OF IFIELD - STAGE 3

TOPOGRAPHICAL SURVEY

Job No	Rev	Drawing Number
19/013		19/013/100-18
Date : FEB 2019		

APPENDIX 4 EXISTING DRAINAGE CALCS

- Greenfield Runoff Rates

[Print](#)[Close Report](#)

Greenfield runoff rate estimation for sites

www.ukstds.com | Greenfield runoff tool

Calculated by: Peter McGowan

Site name: West of Ifield

Site location: Ifield

Site Details

Latitude: 51.12033° N

Longitude: 0.2304° W

Reference: 69662952

Date: Apr 25 2023 08:33

This is an estimation of the greenfield runoff rates that are used to meet normal best practice criteria in line with Environment Agency guidance "Rainfall runoff management for developments", SC030219 (2013), the SuDS Manual C753 (Ciria, 2015) and the non-statutory standards for SuDS (Defra, 2015). This information on greenfield runoff rates may be the basis for setting consents for the drainage of surface water runoff from sites.

Runoff estimation approach IH124

Site characteristics

Total site area (ha): 107

Methodology

Q_{BAR} estimation method: Calculate from SPR and SAAR

SPR estimation method: Calculate from SOIL type

Soil characteristics

Default

Edited

SOIL type: 4 4

HOST class: N/A N/A

SPR/SPRHOST: 0.47 0.47

Hydrological characteristics

Default

Edited

SAAR (mm): 808 808

Hydrological region: 6 6

Growth curve factor 1 year: 0.85 0.85

Growth curve factor 30 years: 2.3 2.3

Growth curve factor 100 years: 3.19 3.19

Growth curve factor 200 years: 3.74 3.74

Notes

(1) Is Q_{BAR} < 2.0 l/s/ha?

When Q_{BAR} is < 2.0 l/s/ha then limiting discharge rates are set at 2.0 l/s/ha.

(2) Are flow rates < 5.0 l/s?

Where flow rates are less than 5.0 l/s consent for discharge is usually set at 5.0 l/s if blockage from vegetation and other materials is possible. Lower consent flow rates may be set where the blockage risk is addressed by using appropriate drainage elements.

(3) Is SPR/SPRHOST ≤ 0.3?

Where groundwater levels are low enough the use of soakaways to avoid discharge offsite would normally be preferred for disposal of surface water runoff.

Greenfield runoff rates

Default

Edited

Q_{BAR} (l/s): 561.95 561.95

1 in 1 year (l/s): 477.66 477.66

1 in 30 years (l/s): 1292.49 1292.49

1 in 100 year (l/s): 1792.63 1792.63

1 in 200 years (l/s): 2101.7 2101.7

This report was produced using the greenfield runoff tool developed by HR Wallingford and available at www.uksuds.com. The use of this tool is subject to the UK SuDS terms and conditions and licence agreement , which can both be found at www.uksuds.com/terms-and-conditions.htm. The outputs from this tool are estimates of greenfield runoff rates. The use of these results is the responsibility of the users of this tool. No liability will be accepted by HR Wallingford, the Environment Agency, CEH, Hydrosolutions or any other organisation for the use of this data in the design or operational characteristics of any drainage scheme.

APPENDIX 5

PROPOSED DRAINAGE LAYOUT PLANS