



## PRELIMINARY SW DRAINAGE CALCS

site co-ordinates: E 445043 N 293244  
Nearest Postcode: LE10 2AY  
M5-60 - 19.6mm  
Ratio R - 0.41

Existing Qbar Rate = 4.3 l/s/ha  
(taken from HR Wallingford UK SuDS Greenfield runoff estimation tool)

### NETWORK 3 - WEST CATCHMENT PRELIMINARY SURFACE WATER DRAINAGE CALCS

Dev area = 2.526ha  
Dev area @65% Imp Area = 1.64ha  
+10% Urban Creep = 1.80ha

Existing Qbar Rate = 4.3 l/s/ha  
(taken from HR Wallingford UK SuDS Greenfield runoff estimation tool)

Allowable discharge rate for catchment  
 $1.64 \text{ (imp ha)} \times 4.3 \text{ (Qbar)} = 7.0 \text{ l/s}$

### NETWORK 2 - CENTRAL CATCHMENT PRELIMINARY SURFACE WATER DRAINAGE CALCS

Dev area = 3.190ha  
Dev area @65% Imp Area = 2.07ha  
+10% Urban Creep = 2.28ha

Existing Qbar Rate = 4.3 l/s/ha  
(taken from HR Wallingford UK SuDS Greenfield runoff estimation tool)

Allowable discharge rate for catchment  
 $2.07 \text{ (imp ha)} \times 4.3 \text{ (Qbar)} = 8.9 \text{ l/s}$

### NETWORK 1 - EAST CATCHMENT PRELIMINARY SURFACE WATER DRAINAGE CALCS

Dev area = 3.558ha  
Dev area @65% Imp Area = 2.31ha  
+10% Urban Creep = 2.54ha

Existing Qbar Rate = 4.3 l/s/ha  
(taken from HR Wallingford UK SuDS Greenfield runoff estimation tool)

Allowable discharge rate for catchment  
 $2.31 \text{ (imp ha)} \times 4.3 \text{ (Qbar)} = 9.9 \text{ l/s}$

## PRELIMINARY ENGINEERING: General Notes.

1. Do not scale this drawing. If in doubt, ask.
2. This drawing is to be used for preliminary appraisal of proposed works only. It is not intended for construction use.
3. This drawing is to be read in conjunction with all other relevant Engineers, Architects and specialist design drawings and details.
4. All dimensions are in metres unless noted otherwise. All levels are in metres unless noted otherwise.
5. Highway design shown is indicative only and subject to Housing layout confirmation, planning approval and Section 38/278 technical approval.
6. Drainage design shown is indicative only and subject to Housing layout confirmation, planning approval and Section 104 technical approval.

### KEY:

- NETWORK 1 - DEVELOPMENT AREA CATCHMENT
- NETWORK 2 - DEVELOPMENT AREA CATCHMENT
- NETWORK 3 - DEVELOPMENT AREA CATCHMENT
- PROPOSED SEWER

NOTE: THIS DRAWING IS  
INTENDED FOR PLANNING  
PURPOSES ONLY

**ridealgh nicholls**  
consulting engineers

T 01164 829032  
E contact@ridnic.co.uk W www.ridnic.co.uk  
A 4 Pear Tree Business Park, Desford Lane, Ratby, LE6 0PG  
Company registration number: 10827228

CLIENT  
**Jelson**  
HOMES

PROJECT  
PROPOSED RESIDENTIAL DEVELOPMENT AT  
**SAPCOTE ROAD,  
BURBAGE  
SOUTH SITE**

TITLE  
**SURFACE WATER  
DRAINAGE STRATEGY  
OVERVIEW**

|                              |                  |                                                                                                                                                   |
|------------------------------|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| DRAWN<br>SC                  | DATE<br>29-06-26 | PURPOSE OF ISSUE<br><input checked="" type="checkbox"/> PRELIMINARY<br><input type="checkbox"/> APPROVAL<br><input type="checkbox"/> CONSTRUCTION |
| SCALE<br>1/2000              | SIZE<br>A1       | REV.<br>A                                                                                                                                         |
| DWG NO.<br><b>E409-00-10</b> |                  |                                                                                                                                                   |