



Haigh Huddleston & Associates

Civil & Structural Engineering Consultants

Firth Buildings, 99 -101 Leeds Road, Dewsbury, WF12 7BU

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Our Ref: E19/7567/HH/L005

3rd July 2024

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Flood Management & Drainage (LLFA)
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**EXISTING SITE RUN-OFF CALCULATIONS
FOR
DEVELOPMENT OFF LINGARDS ROAD, SLAITHWAITE for SB HOMES LTD**

SW03 – SW03A

Existing Gradient: 1/30
Existing Capacity: 200lit/sec
(figures based on CCTV survey information carried out Octane Drain Care Ltd).

Assumed area of existing highway: 900m²
Flow: $0.09 \times 2.78 \times 50 = 12.5\text{lit/sec}$

Assumed area of existing on-site land drainage A: $50 \times 100 = 5000\text{m}^2$
Flow (based on 2lit/sec/ha): 1lit/sec

Assumed area of existing on-site land drainage B: $150 \times 150 = 22500\text{m}^2$
Flow (based on 2lit/sec/ha): 4.5lit/sec

Total flows entering existing highway drain: 18lit/sec

Maximum allowable discharge rate for development: 6.6lit/sec

Total flows entering SW03 – SW03A post development: 24.6lit/sec

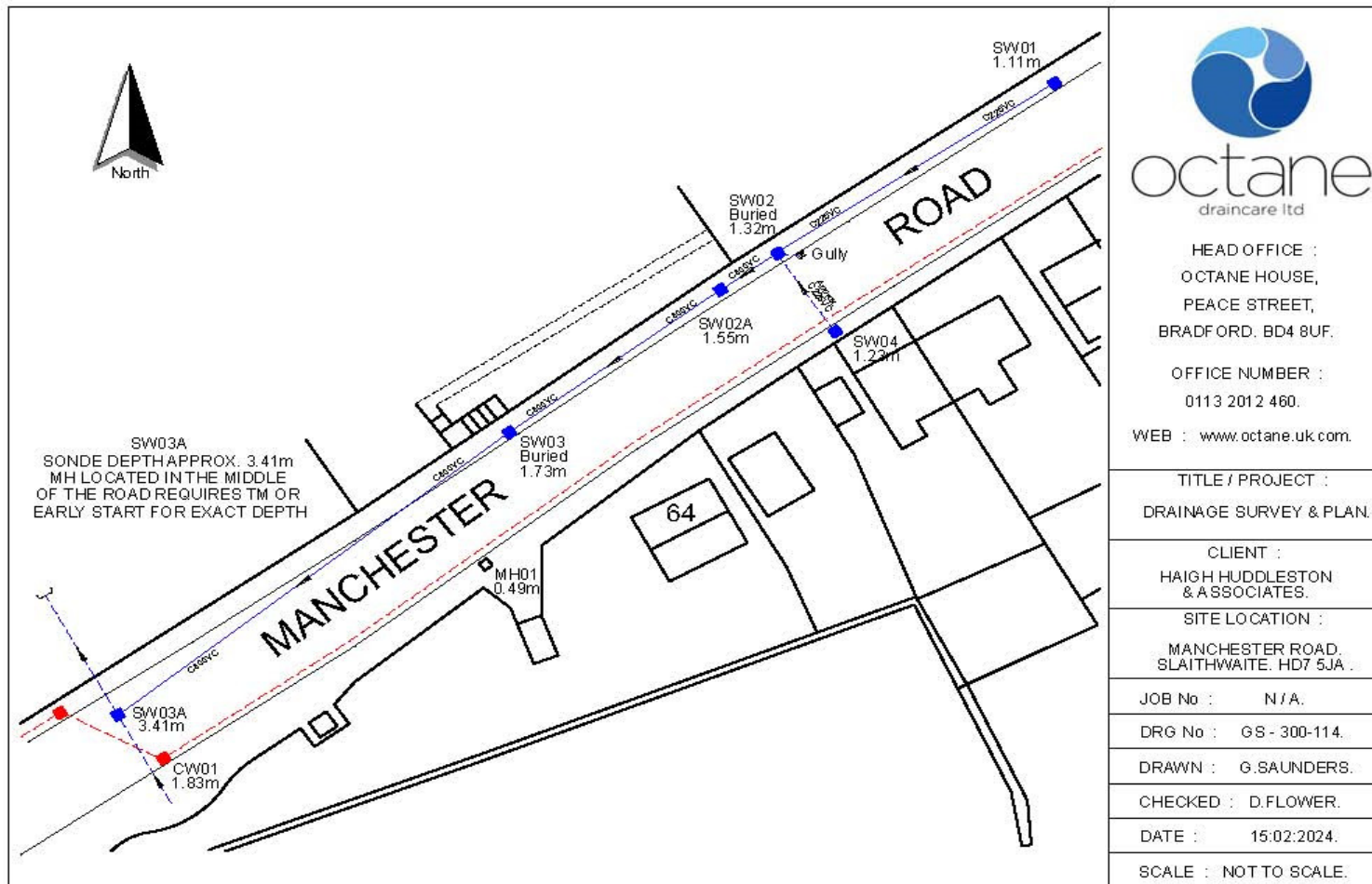


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