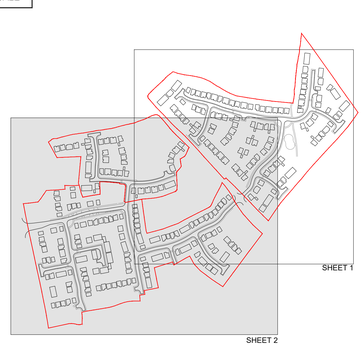
DO NOT SCALE




**KEY PLAN**

STANSTY LODGE LANE

STANSTY CHAIN ROAD

Cattle Grid

Oakhurst

The Hawthorns

Stansty Lodge

Line of Posts

MOLD ROAD

Sinks

Existing Culvert

Drainage Basin

Rising main 328m long

INFILTRATION BASIN 3
TOB = 87.500
Base Level = 85.825
Basin Base Area = 118m²
1 in 3 Side Slopes
Top Water Levels:
100yr+50%cc = 87.191
100yr = 86.833
30yr = 86.635
Infiltration Rate = 0.9252 m/hr

Nominal 100-200mm locally placed stone protection min. 5m long

Nominal 100-200mm locally placed stone protection min. 5m long

INFILTRATION BASIN 2
TOB = 85.750
Base Level = 84.000
Basin Base Area = 977m²
1 in 3 Side Slopes
Top Water Levels:
100yr+50%cc = 85.453
100yr = 84.969
30yr = 84.733
Infiltration Rate = 0.3744 m/hr

Adoptable FW Pumping Station (Welsh Water)
CL. 86.300
Sump Base Level TBC
(incoming 80.628)

Rising Main to F96 Gravity network to Existing FW Public Sewer

Emergency storage requirement (240l x 380 = 91.20 cu.m)

Storage to be explored further at detailed design.

SEE INSERT ON SHEET 1 FOR RISING MAIN OUTFALL

0 5 10 15 20 25 30 35 40 45 50
SCALE BAR (m)

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## Notes

1. Setting out shall be undertaken using only the information given. Distances should not be scaled from this drawing.
2. All adoptable drainage shall be constructed in accordance with 'Sewers for Adoption' 7th Edition, Welsh Ministers Standards and Welsh Water Details and Guidelines.
3. The minimum gravity pipe diameter under adoptable highways shall be 150mm
4. It is the responsibility of the Contractor to verify all information given with regards to existing services and drainage connections etc. prior to commencing the works. The rates shall include for hand dig around services where necessary. The Contractor shall adhere to the CDM Regulations at all times
8. All materials to bear the relevant B.S. Kitemark and comply fully with the specifications. All concrete & concrete products must use Sulphate resistant cement to withstand Class 3 condition (unless the site investigation report proves that sulphate attack from soils and groundwater will not occur).
9. All opening notices etc. as required under Highways Acts etc. are to be obtained prior to commencement of works. All works are to be inspected by L.A., NHBC or the Network Operator as applicable.
10. Where structured wall UPVC pipes (or similar approved) are used in adoptable drainage they shall be handled and laid in accordance with the manufacturers instructions and will be subject to post installation deformation testing prior to adoption.
A Class S Bed and Surround must be used for structured wall pipes
10. Trench backfill in highways to within 1m of highway shall, as directed by the Highway Authority be a suitable granular material all in accordance with Sewers for Adoption.
12. Slab levels shall not be varied without reference to the Engineer for guidance.
13. Pipes have not been designed to accommodate construction traffic loading. The contractor is responsible for providing adequate protection to the pipes during construction.
14. All manhole covers and frames shall comply with BS EN124. All adoptable manholes and chambers shall comply with Sewers for Adoption 7th Edition. Covers in roads to be grade D400 and be 150mm deep. Manhole covers in car parking areas and drives to be grade B125 and covers in landscaping areas to be grade A15. All to be sized in accordance with Building Regulations Part H, Tables 11 & 12. "In-fill" type covers should not be used. Where a cover is located in an area of block paving, the bottom of the frame should be 150mm deep.

## Legend

- Site Boundary (Phase 1 & 2)
- 600 W — Retaining Wall (GeoWall)
- 600 W — Retaining Wall (Brick)
- 450 FOE — Flag Retaining Wall
- 300 GB — Gravel Board
- 150 UB — Underbuild
- 300 STEP — Step In Slab
- FFL 18.65 — Plot Slab Level
- S01 — Adoptable Surface Water Sewer
- F01 — Adoptable Foul Sewer
- FC — Flow Control Manhole
- Sewer Easement
- +0.95 -0.95 — Depth of fill (Existing levels to proposed)
- Cellular Soakaways
- Infiltration Basin

# STRATEGY

| Rev. | Date | Revision | By | Appd. |
|---|---|---|---|---|
| B | 24.07.25 | Phase 1 and Phase 2 boundaries added | PW | AJ |
| A | 24.07.25 | Revised Infiltration Basin 2 location | PW | AJ |

coopers
chartered consulting engineers
Park House
Sandpiper Court
Chester Business Park
Chester
CH4 9QU
Tel: 01244 684910
Email: admin@coopers.co.uk
Web: http://coopers.co.uk

Client: Castle Green

Project: STANSTY ROAD, WREXHAM

Title: Drainage Strategy Sheet 2 of 3

| DRAWING NUMBER | SCALE at A0 | 1:500 | |
|---|---|---|---|
| 8562 / SK02-2 | DATE | 21.07.25 | REVISION |
| | DRAWN | PW | B |
| | CHECKED | AJ | |