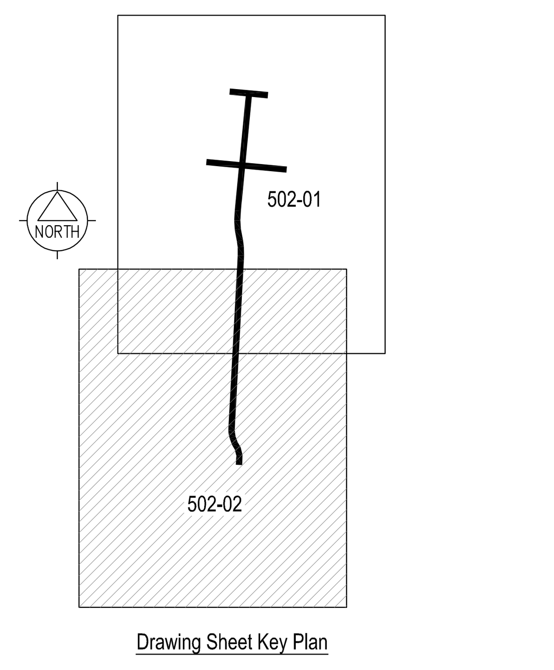
NOTES

1. All levels relate to Ordnance Datum.
2. All gullies to be rodable or connected to inspection chambers. All road gullies connections to be 150ø, connections other than at manholes to be "Y" junctions. Gully's coincident with pedestrian crossings to have pedestrian type gully covers. Positions of yard and house gullies are nominal and may be adjusted on site.
3. All domestic drainage to be 100ø U.N.O or as noted. Minimum gradient for 100ø SW is 1:100 and 100ø FW is 1:80. Bedding for domestic drainage Class B. All pipe runs near buildings to comply with the Building Regulations 2002 Part H1.
4. All works to be in accordance with WRC Sewers for Adoption 7th Edition or as stipulated in Southern Water Authority addendum, the Local Authority and BS8301 1985.
5. All materials to be agreed by LA. Trench fill under roads to be clause 613 material as agreed with LA.
6. All slab levels shown are for guidance only and may need to be adjusted on site, subject to approval by the engineer.
7. The contractor must comply with all current legislation relating to Health and Safety. The contractor/client must familiarise himself with all service companies records of existing plant locations prior to any excavation works. All existing services/sewers to be traced/sureyed. Any indiscrepancies to be reported to the engineer immediately.
8. All concrete and concrete products to be in accordance with BRE 363 for sulphates.
9. All stub stacks to be fitted with air admittance valves where branch drain exceeds 12m except at the head of run.
10. Position of soil pipes, standing wastes, wc outlets etc. are shown on the Architect's working drawings. Rainwater downpipe positions are to be checked against architects details to ensure compatibility. Rainwater downpipes to have rodding access facilities where surface water drainage passes under buildings.
11. Driveways to garages with step approaches to laid with suitable HOG & SAG curvature to avoid grounding out.
12. All plots to have which has gardens sloping towards the back of the house to have french drains. Drain to be connected to surface water system.
13. Where block paved areas fall towards building to a 100mm filter stip/perforated drain connected to drainage system.
14. All existing/new utility services within the vicinity of ANY trees to be carried out in accordance with 'NJUG' Publication number 10. 'Guide line for planning, installation and maintenance of utility services in proximity to trees'
15. All properties to have level access front and rear where ever possible. Final levels of paths and patios to be set such that they not obstruct subfloor ventilation.
16. Do not scale from this drawing, work only from stated dimensions or setting out details.
17. This drawing is to read in conjunction will all relevant Escher Silverman drawings and specifications.
18. Do not scale from this drawing, work only from stated dimensions or setting out details.
19. For manhole type and covers refer to standard details.
20. Manhole levels at existing drainage connections to be confirmed prior to commencement of drainage works and engineer advised if there is any discrepency.

Drainage Key

- Existing Surface Water Sewer and Manhole
- Existing Foul Water Sewer and Manhole
- 150 dia ESVC 1:150 Bed S — S104 Adoptable Foul Sewer
- S104 Adoptable Foul Manhole Type 2 (1200mm diameter unless indicated otherwise)
- S104 Adoptable Foul Inspection Chamber Type 3
- 150dia ESVC 1:150 Bed S — S104 Adoptable Surface Sewer
- Section 38 Surface Water Gully with 150 Diameter Connection
- S104 Adoptable SW Manhole
- S104 Adoptable Surface Manhole Type 2 (1200mm diameter unless indicated otherwise)
- S104 Adoptable Surface Inspection Chamber Type 3 600 Diameter
- 100dia 1:80 — Foul Drain with TYPE 3 450 Diameter Inspection Chamber, Diameter and Gradient
- 100dia 1:80 — Foul Drain with TYPE 4 250/300 Diameter Inspection Chamber, Diameter and Gradient
- BD — Foul Water Backdrop
- 100dia 1:100 — Surface Water Drain with TYPE 3 450 Diameter Inspection Chamber, Diameter, Gradient and Invert Level
- ST — Surface Water Silt trap
- BD — Surface Water Backdrop
- Surface Water rodding eye and invert level
- Surface Water Yard Gully
- ACO Drain
- Section 38 Street Lighting Column to Lighting Reality Ltd's. Design Ref: '5972'
- Private Batwing LED Lighting Column to Prolectric's Design Ref: 'Persimmon'
- Private Roundbeam LED Lighting Column to Prolectric's Design Ref: 'Persimmon'



Drawing Sheet Key Plan

Rev.	Date	Details	Initials
J	09.09.2020	Amendments s to invert levels at MHs F15 - F21 & S15 - S21. MH F15 repositioned. MHS15 offered for adoption.	DLS
I	17.12.19	Block plans amended. Design responsibility taken over by Persimmon Homes	DLS
H	05.06.19	F21 & F22 locations amended	MA
G	23.05.19	F21 to F22 angle amended.	KAM
F	12.04.19	S104 surface water drainage amended at south of site following receipt of additional survey information	MA
E	08.03.19	Street lighting added following receipt of lighting design. Foul drainage for road 4 amended to suit S104 requirements	MA
D	19.02.19	Drainage for parking area adjacent to POS amended to suit revised engineering layout	MA
C	22.01.19	Drawing title and status amended.	KAM
B	21.01.19	Drainage amended to suit Client's comments	HN
A	14.01.19	Initial issue	HN

Drawing Status
CONSTRUCTION

Project
Castle Avenue, Havant

Client
PERSIMMON

ESCHER · SILVERMAN
Civil & Structural Consulting Engineers
Roughton, A2 Omega Park, Electron Way, Chandlers Ford, Hampshire SO53 4SE
Tel: 023 8027 8659 Email: reception@eschers.co.uk
www.eschersilverman.com

Drawing Title
Engineering Details
Drainage Layout 2 of 2

Drawn	Checked	Scales	Paper Size	Date
HN	KN	1:250	A1	12.18

Job No.	Drawing No.	Revision
ES1857	502–02	J

This drawing is the copyright of Escher Silverman and may not be copied, altered or reproduced in any form or passed to a third party without the consent of Escher Silverman. Do not scale from this drawing, use figured dimensions only.
Dimensions should be checked and verified on site and any discrepancies should be reported to Escher Silverman as soon as possible.