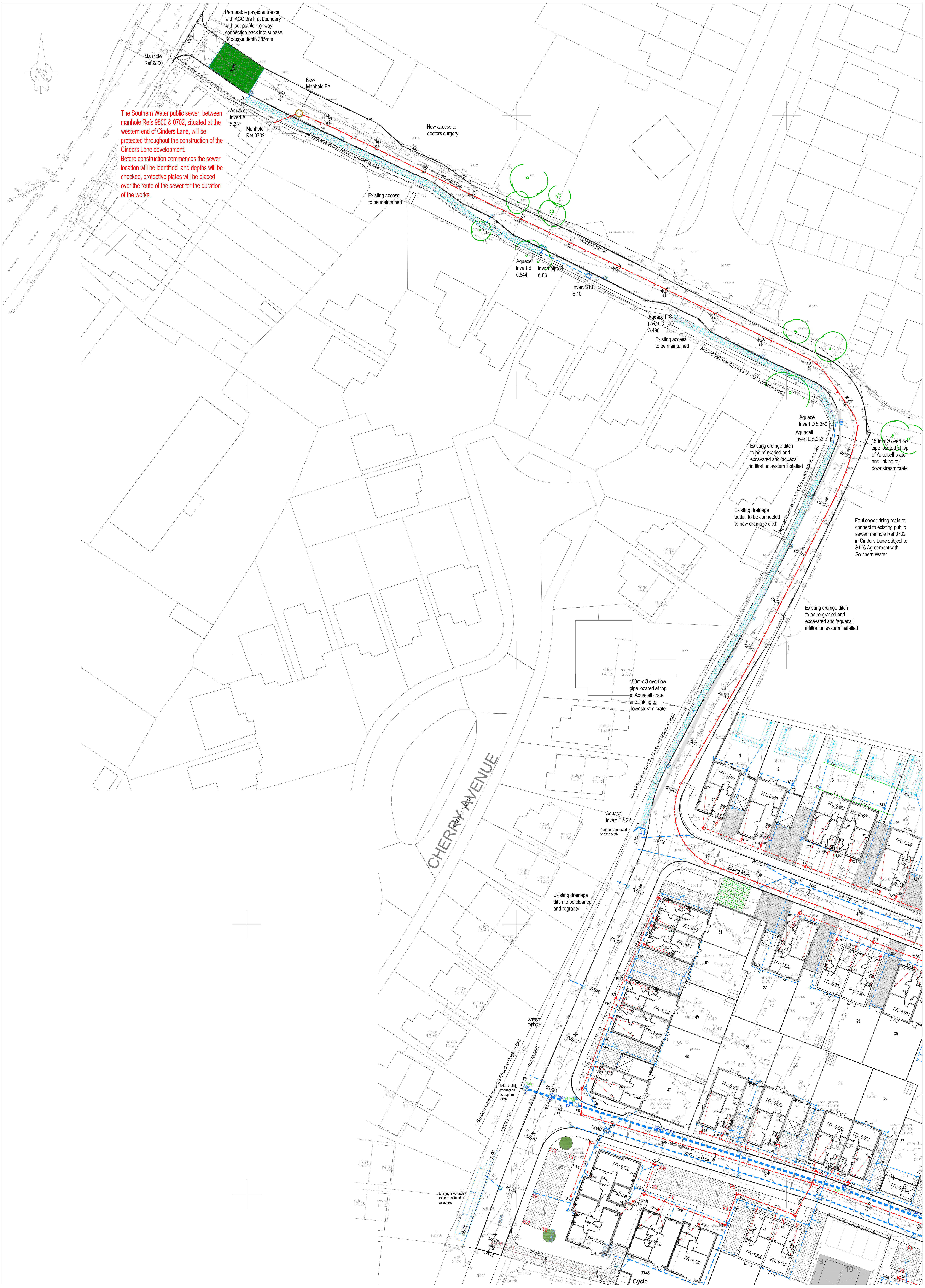

The Southern Water public sewer, between manhole Refs 9800 & 0702, situated at the western end of Cinders Lane, will be protected throughout the construction of the Cinders Lane development. Before construction commences the sewer location will be identified and depths will be checked, protective plates will be placed over the route of the sewer for the duration of the works.

Notes:

1.All levels are to local Datum.
2.All Highway work's on or adjacent to existing public highway shall be executed in accordance with the Traffic Safety Code for Roadwork's and Chapter 8 of the Traffic Signs Manual.
3.At the commencement of works on site the contractor is to carry out trial pits and liaise with Utility Companies in order to establish the exact position of all existing statutory utility plant in the vicinity of works and take adequate precautions or their protection.
4.The Contractor is to comply fully with the CDM Regulations in the course of constructing the works.
5.Highways in the vicinity of the works must be kept free from mud, debris and dust falling from vehicles or the wheels of vehicles connected with the works.
6.All drain and sewer pipes to be laid soffit to soffit, unless shown otherwise.
7.Minimum gradient for 100Ø SW is 1:100 and 100Ø FW is 1:80 with one WC connected otherwise 1:40. Bedding for domestic drainage Class B. All pipe runs near buildings to comply with the Building Regulations 2010 Part H1.
8.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.
9.All concrete and concrete products to be in accordance with BRE 363 for sulphates.
10.All slab levels shown are for guidance only and may need to be adjusted on site, subject to approval by the engineer.
11.Do not scale from this drawing, work only from stated dimensions or setting out details.
12.Refer to tables for manhole schedules
13. Where paths falls towards the front door use suitable linear/slot drainage sysytem connected to surface water system as per architects details.
14. All plots to have gardens sloping away from properties otherwise interceptor drains to be installed.
15. Surface water drainage connected to catchit manhole prior to discharge to soakaway
16. Soakaways to be minimum 5.0m from dwelling foundations and 2.0m from boundary wall foundations. Boundary walls within 2.0m of soakaways to have reinforced foundations. Prior to construction of soakaways trial holes to be dug to the invert of base to establish ground water level.
17. This drawing is to be read in conjunction with all relevent engineering drawings issued by Escher Silverman and Crayfern Homes for this site only.

LEGEND:

Foul Water Drainage Legend:

— · — · —	Existing foul water sewer (sited in Bilsham Road)
—·—·—·⊖	Domestic foul water sewer and manholes
—⌐—⌐—	Foul sewer rising main
	Foul water pumping station (not adopted)
F1 ○	Type 2 - 1200mm Ø
F4 ⊖	Type 3 - 450mm or 600mm Ø
F4/1 ●	Type 4 Shallow PPIC inspection chamber - 250mm Ø. Invert 750mm lower than FFL unless noted otherwise

Surface Water Drainage Legend:

S10 ○	Type 2 - 1200mm Ø
ST	Type 6 - 1050mm Ø silt trap manhole
▭	Type C 1240 x 675 (see schedule)
D5 ▭	Type D 900 x 675 (see schedule)
— — — ⊖	Domestic surface water drain with rodding eye.
S1 ⊖	TYPE 3 - 450mm
ST3 ▲	Type 5 - 450mm Silt Trap
G	Unadopted highway gully
yg	Unadopted highway gully
++++++	Aco drainage channel (installed at all garage entrances)
So1	Domestic trench soakaways. Sizing determined by in-situ infiltration testing. Soakaways designed in accordance with Environment Agency criteria for 1 in 100years storm return +40% climate change and sited a minimum of 5.0m from new dwellings.
▨	Existing drainage ditch replaced with 'Aquacell' Prime infiltration/swale system adjacent to Cinders Lane. Inspection access points at 25 metre intervals. 150 mm dia overflow at high level as indicated.
AV 🟩	'Aquacell' Core attenuation tank with air valve
H1	Headwall discharge to ditch

Surfacing Legend:

▨	Block paved domestic drive
▨	Permeable block paved domestic drive Depth of sub base - 225mm
▨	Permeable block paved shared drive Depth of sub base - 320mm
🟩	Permeable block paved access entrance Depth of sub base - 385mm
🟩	Reinforced grass parking construction
▨	Flexible construction footpath/bridleway

SAFETY, HEALTH &
ENVIRONMENTAL INFORMATION
CDM Regulations 2015

In addition to the hazards/risks normally associated with the type of work detailed on this drawing note should be made of the following:

- Working in vicinity of live highway
- Services to be located prior to any excavation work being undertaken
- Deep excavations
- Working on live foul sewers

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement. Contractor is not relieved of any of his obligations under all applicable health and safety regulations.

Rev.	Date	Details	Initials
F	11.11.19	S13, H4, Southern Water note and aquacell levels added	KN
E	23.10.19	On site drainage adjustments	KN
D	13.08.19	Aquacell overflows added as requested by ADC drainage engineer	KN
C	29.07.19	Issued for tender	KN
B	22.03.19	Client revisions to layout (P101-REV O)	KN
A	05.12.18	First issue	KN

Drawing Status
FOR TENDER

Project
CINDERS LANE
YAPTON

Client
Crayfern
HOMES

KAZYS NARBUTAS
CONSULTING
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Drawing Title
Engineering Details
Drainage Layout

Drawn	Checked	Scales	Paper Size	Date
KN		1:250	A0	01.19

Job No.	Drawing No.	Revision
KNC1826	502-02	F

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Dimensions should be checked and verified on site and any discrepancies should be reported to Kazys Narbutas Consulting as soon as possible.

ARUN DISTRICT COUNCIL Y/114/19/DOC