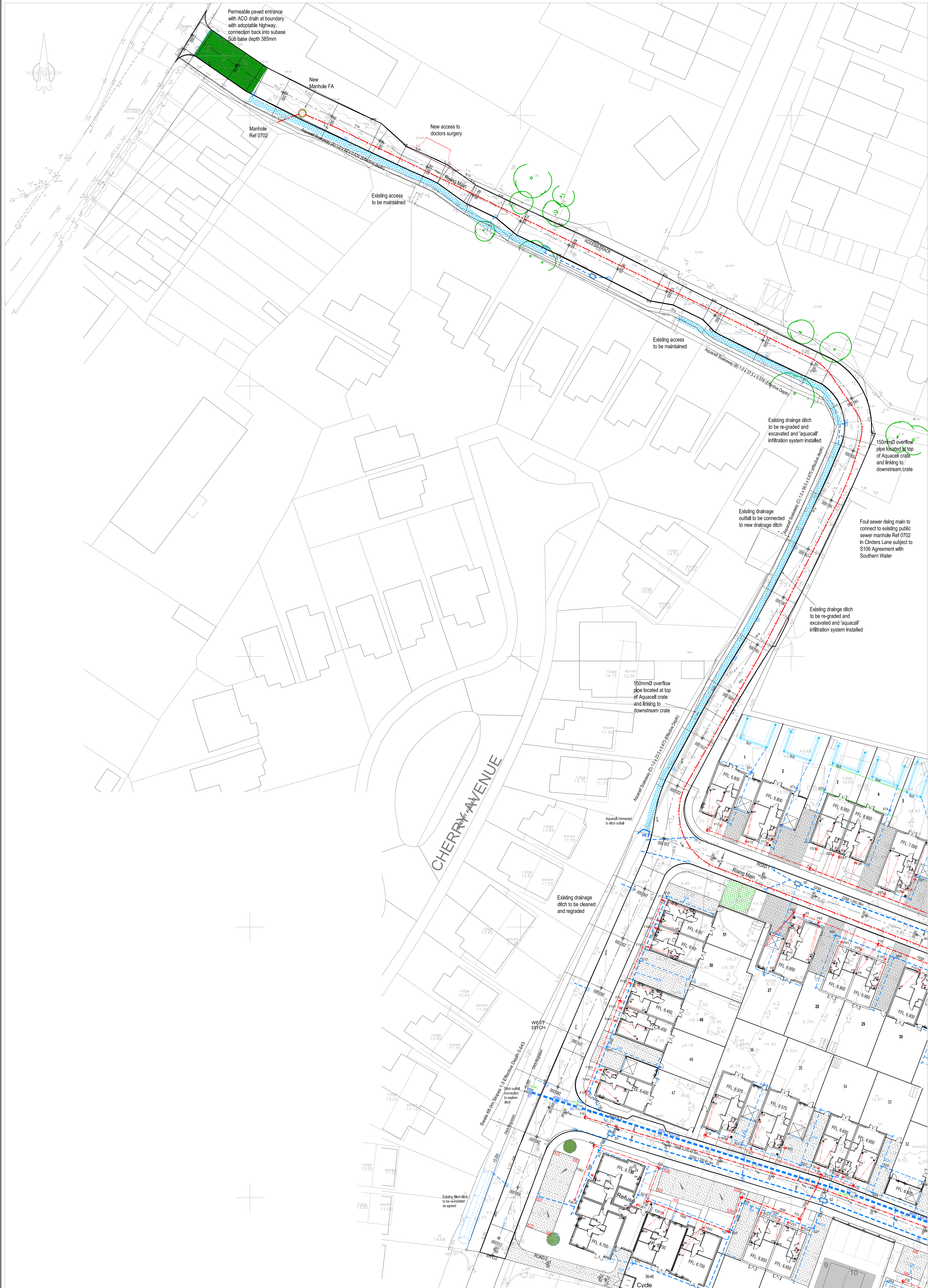




- Notes:
- 1 All levels are to local datum.
 - 2 All highway works 1m or adjacent to existing public highway shall be executed in accordance with the Traffic Safety Code for Roadworks and Chapter 8 of the Traffic Signs Manual.
 - 3 At the commencement of works on site the contractor is to carry out trial pits and tests 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 soft to soft, unless shown otherwise.
 - 7 Minimum gradient for 1000 SW is 1:100 and 1000 FW is 1:80 with one W/C 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 roofing access facilities where surface water drainage passes under buildings.
 - 9 All concrete and concrete products to be in accordance with BRE 363 for subpiles.
 - 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 gullies fall towards the front door use suitable freestanding drainage system connected to surface water system as per architect's details.
 - 14 All gullies to have gullies sloping away from properties otherwise interceptor drains to be installed.
 - 15 Surface water drainage connected to catchment 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 soakaway fill holes to be dug to the level of base to establish ground water level.
 - 17 This drawing is to be read in conjunction with all relevant engineering drawings issued by Escher Silverman and Crayfern Homes for this site only.

- LEGEND:
- Foul Water Drainage Legend:**
- Existing foul water sewer (as per Bilton Road)
 - Domestic foul water sewer and manholes
 - Foul sewer rising main
 - Foul water pumping station (not adopted)
 - F1 Type 2 - 1200mm Ø
 - F2 Type 3 - 450mm or 600mm Ø
 - F4 Type 4 Shallow PPC Inspection chamber - 250mm Ø, Invert 150mm lower than FFL unless noted otherwise
- Surface Water Drainage Legend:**
- S10 Type 2 - 1200mm Ø
 - S1 Type 6 - 1050mm Ø all trap manhole
 - S2 Type C 1240 x 675 (see schedule)
 - S3 Type D 900 x 675 (see schedule)
 - S4 Domestic surface water drain with rodding eye
 - S5 TYPE 3 - 450mm
 - S6 Type 5 - 450mm Silt Trap
 - Unadopted highway gully
 - Unadopted highway gully
 - Acc drainage channel (installed at all garage entrances)
 - Domestic trench soakaways, Storm drainage to be in-situ infiltration trench. Soakaways designed in accordance with Environment Agency criteria for 1 in 10 years storm return - 40% discharge change and shed a minimum of 5.0m from new dwellings.
 - Existing drainage ditch replaced with Aquacell Pipe Infiltration system adjacent to Chinders Lane. Inspection access points at 25 metre intervals. 150 mm Ø overflow at high level as indicated.
 - Aquacell Cone 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

S	13.08.19	Aquacell overflow added as requested by ADC drainage engineer	KN
C	20.07.19	Issued for tender	KN
B	22.03.19	Client reviews to layout (P201-REV 0)	KN
A	05.12.18	Final issue	KN
Rev	Date	Details	Issue

Drawing Title PRELIMINARY FOR TENDER			
Client CINDERS LANE YAPTON			
Drawn by Crayfern HOMES			
Engineer ESCHER SILVERMAN Civil & Structural Consulting Engineers Roughley, A2 Orping Park, Elvaston Way, Cheltenham Ford, Hampshire SO53 4NE Tel: 01262 8087 8000 Email: enquiries@escher.com www.escherconsultants.com			
Drawing Title Engineering Details Drainage Layout			
Drawn By KN	Checked KN	Scale 1:250	Project Ref AO
Job No. ES1826	Drawing No. 502-02	Date 01.19	Revision D

- 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.