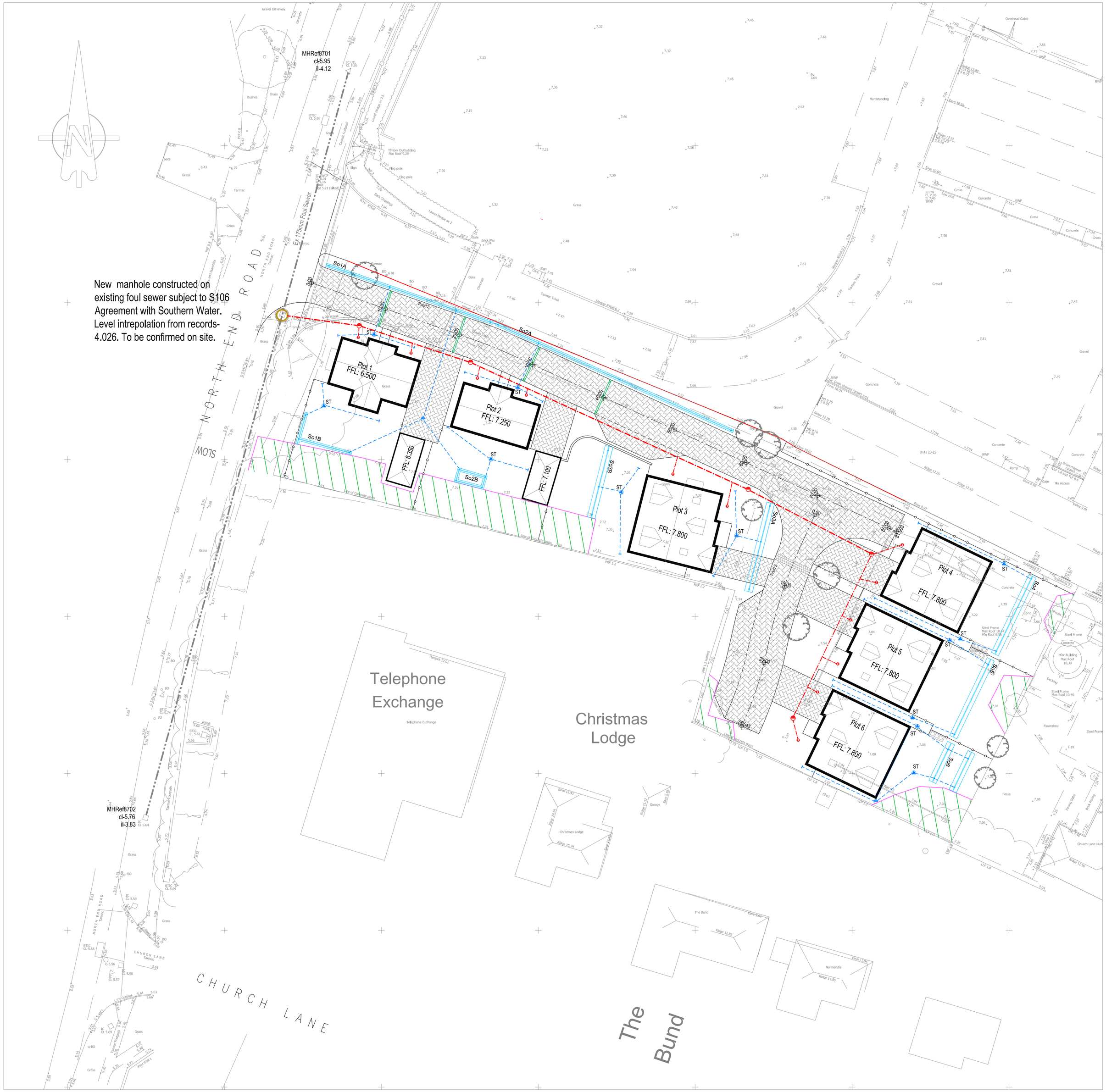


Legend:

- Existing foul water sewer
- F1 — Type 2 foul water manhole constructed on existing sewer subject to S106 Agreement with Southern Water
- Domestic foul water sewer
- Domestic surface water rodding eye and drain. Invert 450mm below ground level unless noted otherwise
- S3 F2 — Manhole Type 3 - 450mm Ø with B125/D400 cover
- F2/2 — Manhole Type 4 - 250mm Ø with B125 cover Invert 750mm lower than FFL unless noted otherwise
- ST2 — Manhole Type 5 - 450mmØ Silt Trap Manhole with B125 cover
- ACO drain installed at ALL garage entrances and at site entrance
- SA1 — Domestic gravel filled soakaway designed in accordance with Environment Agency criteria. In-situ testing has been undertaken to confirm infiltration rates.
- Permeable block paved driveway
- Permeable block paved access roads and parking areas
- Impermeable block paved service crossing
- FFL 11.20 — Proposed Finished Floor Level
- Sub surface 'baffles' under carriageway surfacing.
- Root protection zone in accordance with Barrell Tree Consultancy drg. 18063-BT1

DRAINAGE STRATEGY

SURFACE WATER DRAINAGE:
Surface water drainage embraces the SuDS (Sustainable Drainage System) philosophy. On site tests at various locations and levels have been undertaken to establish suitability of utilising infiltration methods as the means of surface water disposal. These tests results have shown that infiltration methods are a suitable means for surface water disposal but in line with local drainage authority requirements further testing will be undertaken during winter months in accordance with BRE365 criteria. Preliminary results have been utilised to produce a drainage strategy that will introduce soakaways to cater for the discharge from roofs, drives and carriageway areas will be constructed in permeble paving which will drain into free draining granular sub base. Prior to discharging to soakaways surface water discharge will pass through a silt trap which will reduce the sediment deposit in the soakaway.

The surface water drainage strategy has been designed in accordance with current Environment Agency requirements for the 1 in 100 year storm event plus 40% increase for climate change and the appropriate factor of safety (FoS) as agreed with Arun District Council.

FOUL WATER DRAINAGE:
The nearest public foul sewer is situated just west of the site in North End Road. Southern Water criteria regarding connecting to public sewers means there will be no objection to the proposed discharge from the site connecting into this sewer. Connection to the sewer will involve the construction of a new manhole which will be subject to a Section 106 Agreement between the developer and Soutern Water. Levels for the receiving sewer have been calculated and show that a gravity discharge from the site to the outfall is possible.

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
C	06.04.20	Soakaways and road amended to account for tree protection zones, surface water drainage note amended	KN
B	12.02.20	Parking increased and Plot 6 re-positioned in accordance with architects revised layout	KN
A	15.01.20	First issue	KN

Drawing Status: FOR PLANNING

Project: ORCHARD BUSINESS PARK
YAPTON: PHASE 2

Client: Crayfern Homes

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Drawing Title: Engineering Details
Drainage Layout

Drawn	Checked	Scales	Paper Size	Date
KN		1:250	A1	01.20

Job No.	Drawing No.	Revision
KNC2004	602-01	C

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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 Y1830/PL