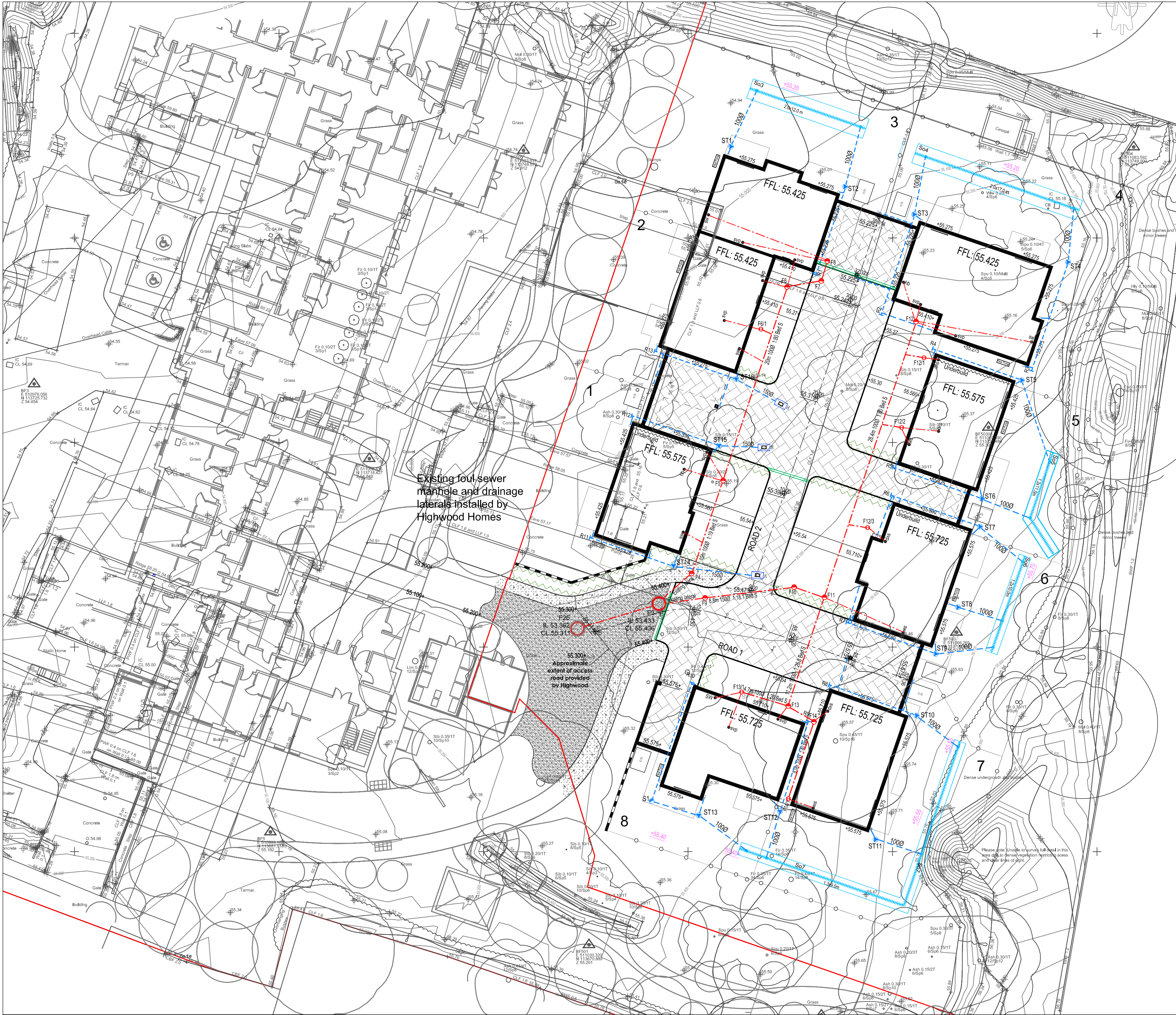




Notes:

- 1.All levels relate to Ordnance 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. All domestic sewers shall be 100mmØ unless shown otherwise. Connections from gullies shall be 150Ø.
- 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 H11.
- 8.Position of soil pipes, standing wastes, vvc 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 subphases.
- 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 system 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 to be connected to catchit manhole prior to discharge to infiltration sub base.
- 16.Soakaways to be minimum 5.0m from dwelling foundations and 2.0m from boundary wall foundations where possible. Boundary walls within 2.0m of soakaways to have reinforced foundations in accordance with structural engineers details.
- 17.Surface water drainage infiltration is designed in accordance with Environment Agency criteria and has been designed for a 1 in 100year storm return + 45% increase for climate change and domestic areas have been increased by 10% for 'urban creep'.
- 18.Prior to construction of any drainage works, the Contractor is to confirm the invert level of existing sewer. Any variations from the designed level shown on the drawings shall be reported to the Engineer in advance of construction works commencing.
- 19.Where connections to drain runs are not at manholes/inspection chambers connections should be made using oblique 45° junctions.
- 20.This drawing is to be read in conjunction with all relevant engineering drawings issued by Kazys Narbutas Consulting for this site only.

Legend:

- 450Ø Type 3 manhole
- 280Ø Type 4 inspection chamber
- 450mm Ø Silt Trap
- Domestic foul water drainage
- Domestic surface water drain.
- Polypipe Permafluid Diffuser dropped in 2mm mesh to diffuse surface water into the sub grade
- Granular filled soakaway serving highway drainage designed in accordance with Environment Agency criteria for 1 in 100yrs storm + 45% for climate change.
- Proposed Finished Floor Level
- Sub surface baffles' under carriageway surfacing.
- Permeable block paved drive & carriageway
- Proposed garden levels
- Proposed finished levels
- Brick screen wall
- Fence (see architects drawings for details)



FOUL DRAINAGE MANHOLE SCHEDULE

REFERENCE	Cover Level (m)	Invert Level (m)	Depth to Soffit (m)	Size (mm)	Type	Cover Grade
F25	55.311	53.362			Existing	
F3	55.436	53.433			Existing	
F4 Constructed on existing lateral	55.450	53.781/53.831	1.519	450 diameter	3	B125
F5	55.40	54.359	0.878	450 diameter	3	B125
F6	55.275	54.698	0.567	450 diameter	3	B125
F7	55.275	54.652	0.523	450 diameter	3	B125
F8	55.275	54.675	0.500	450 diameter	3	B125
F9	55.43	53.768	1.512	450 diameter	3	B125
F10 Constructed on existing lateral	55.55	54.253/54.283	1.167	450 diameter	3	B125
F11	55.55	54.300	1.130	450 diameter	3	B125
F12	55.275	54.675	0.500	450 diameter	3	D400
F13	55.575	54.738	0.737	450 diameter	3	B125
F14	55.575	54.775	0.700	450 diameter	3	B125
F6/1	55.275	54.675	0.500	450 diameter	4	B125
F12/1	55.425	54.825	0.500	450 diameter	4	B125
F12/2	55.425	54.825	0.500	450 diameter	4	B125
F12/3	55.550	54.950	0.500	450 diameter	4	B125
F13/1	55.575	54.975	0.500	450 diameter	4	B125
F14/1	55.575	54.975	0.500	450 diameter	4	B125

SURFACE WATER DRAINAGE RODDING EYE SCHEDULE

REFERENCE	Cover Level (m)	Invert Level (m)	Depth to Soffit (m)	Type	Cover Grade
R1	55.275	54.85	0.325	RE	B125
R2	55.275	54.85	0.325	RE	B125
R3	55.275	54.85	0.325	RE	B125
R4	55.275	54.85	0.325	RE	B125
R5	55.425	54.85	0.475	RE	B125
R6	55.50	54.925	0.475	RE	B125
R7	55.50	54.925	0.475	RE	B125
R8	55.575	54.950	0.525	RE	B125
R9	55.575	54.950	0.525	RE	B125
R10	55.575	55.000	0.475	RE	B125
R11	55.425	54.950	0.375	RE	B125
R12	55.425	54.950	0.375	RE	B125
R13	55.275	54.830	0.345	RE	B125

SURFACE WATER DRAINAGE MANHOLE SCHEDULE

REFERENCE	Cover Level (m)	Invert Level (m)	Depth to Soffit (m)	Size (mm)	Type	Cover Grade
S1	55.575	54.880	0.595	450 diameter	3	B125

SURFACE WATER DRAINAGE SILT TRAP SCHEDULE

REFERENCE	Cover Level (m)	Invert Level (m)	Depth to Soffit (m)	Size (mm)	Type	Cover Grade
ST1	55.275	54.76	0.415	450 diameter	5	B125
ST2	55.275	54.76	0.415	450 diameter	5	B125
ST3	55.275	54.73	0.445	450 diameter	5	B125
ST4	55.275	54.73	0.445	450 diameter	5	B125
ST5	55.300	54.75	0.490	450 diameter	5	B125
ST6	55.425	54.75	0.575	450 diameter	5	B125
ST7	55.550	54.825	0.625	450 diameter	5	B125
ST8	55.550	54.825	0.625	450 diameter	5	B125
ST9	55.550	54.825	0.625	450 diameter	5	B125
ST10	55.575	54.850	0.625	450 diameter	5	B125
ST11	55.575	54.850	0.625	450 diameter	5	B125
ST12	55.575	54.850	0.625	450 diameter	5	B125
ST13	55.575	54.830	0.645	450 diameter	5	B125
ST14	55.450	54.870/54.820	0.480	450 diameter	5	B125
ST15	55.375	54.860/54.810	0.415	450 diameter	5	B125
ST16	55.275	54.750/54.720	0.425	450 diameter	5	B125

SURFACE WATER DRAINAGE DISTRIBUTION TANKS

REFERENCE	Road Level (m)	Formation Level (m)	Pipe Invert Level (m)
DA	55.45	54.750	54.750
DB	55.38	54.653	54.653
DC	55.40	54.623	54.623

SOAKAWAY DETAILS-Domestic Trench Soakaways

Soakaway Ref	Area Draining (m ² at 1% Urban Creep)	Width m	Length m	Ground level (m)	Top of Infiltrator (m)	Invert level (m)	Soakaway base Invert
So3	114 (11)	2.00	12.0	55.20	54.90	54.30	53.20
So4	200 (13)	2.00	17.0	55.20	54.90	54.30	53.20
So5	127 (10)	1.30	11.5	55.60	55.30	54.65	53.20
So6	128 (10)	1.20	10.0	55.70	55.40	54.75	53.50
So7	200 (20)	1.30	11.0	55.50	55.20	54.75	54.00

Infiltration rates have been measured on site in accordance with BRE365.

C 01.05.26
R 27.04.26
A 21.04.26

01.05.26
27.04.26
21.04.26

Floor levels Plots 1 & 6 amended
Road 2 widened between chs 0 & 11.7
First issue

KN
KN
KN

Drawing Status

PRELIMINARY

Project

OLD CLAYTON KENNELS
STORINGTON

Client


BRIARSGATE
HOMES


KAZYS NARBUTAS
CONSULTING
Civil Engineering Consultants
Unit 24b, Romsey Industrial Estate, Greenbridge Road, Romsey, Hants, SO51 0HT
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Drawing Title
Engineering Details
Drainage Layout

Drawn
KN

Checked

Scales
1:250

Paper Size
A1

Date
0426

Job No.
KNC2602

Drawing No.
502-01

Revision
C