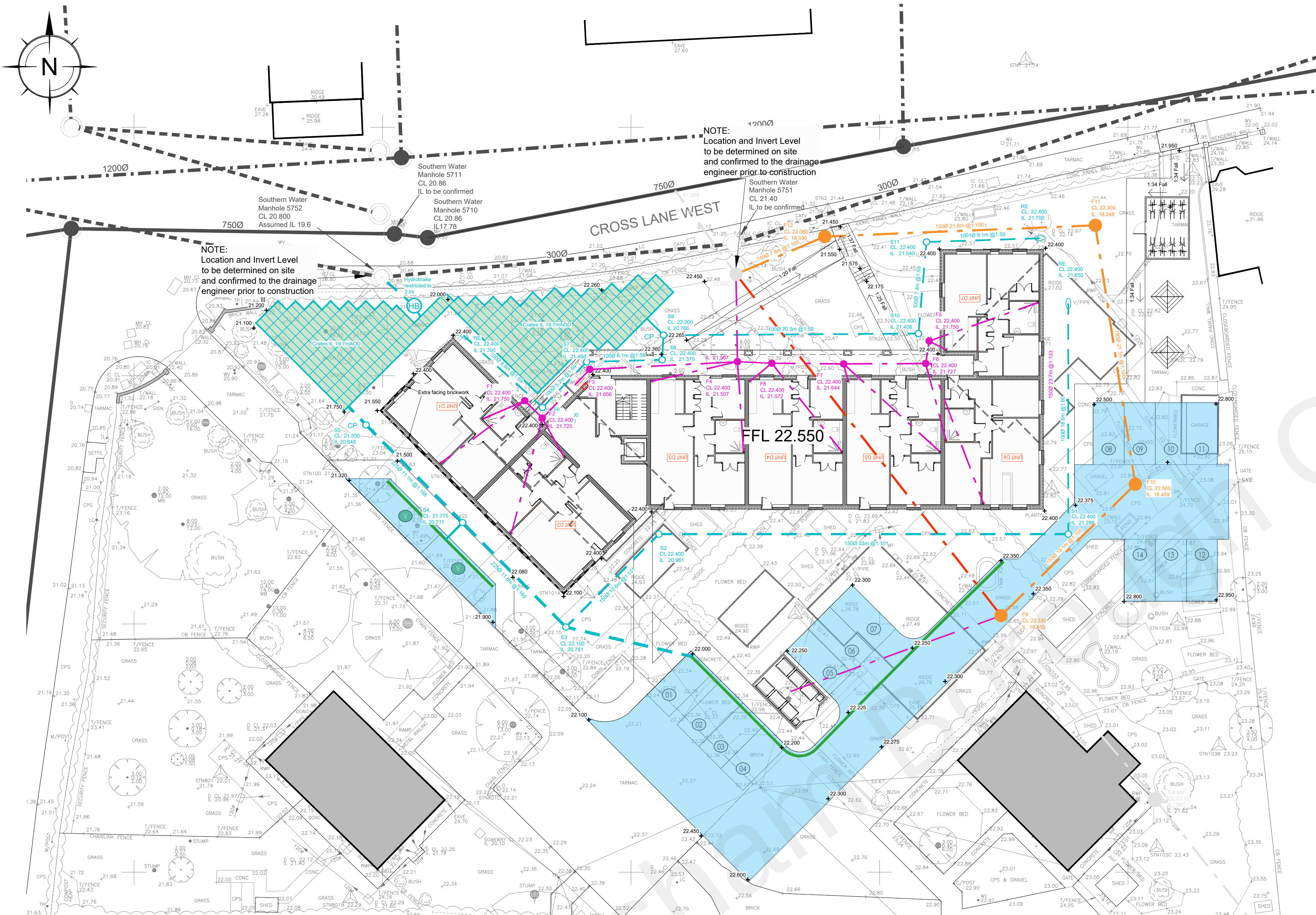




Legend:

- Existing Foul Water Sewer
- Existing Storm Water Sewer
- Existing Combined Sewer
- Existing Foul Water Sewer to be abandoned
- Proposed Foul Water Drainage
- Foul lateral drain to be adopted by Southern Water subject to section 106
- Proposed Storm Water Drainage
- Catchpit 500mm sump
- Hydrobrake @ 2/s
- Rodding Eye
- Fin Drain 100mmØ perforate pipe
- Area of 4/20 voided subbase providing stormwater with impermeable membrane. For conveyance and treatment
- Storage Crates: 800mm deep in 2No 400mm layers 95% voids, 134m³ (536No crates) providing 103m³ of storage

STORM WATER MANHOLE SCHEDULE						
MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	DIAMETER / SIZE	COVER TYPE	MANHOLE TYPE
S1	22.400	21.288	1.112	450mmØ	D400	FIG B_18 Type D
S2	22.400	20.961	1.439	450mmØ	A15	FIG B_18 Type D
S3	22.400	20.781	1.619	450mmØ	A15	FIG B_18 Type D
S4	21.775	20.711	1.064	450mmØ	A15	FIG B_18 Type D
S5	21.550	20.645	0.905	450mmØ	A15	Catchpit
S6	22.400	21.550	0.850	450mmØ	A15	FIG B_18 Type D
S7	22.400	21.468	0.932	450mmØ	A15	FIG B_18 Type D
S8	22.400	21.370	1.030	450mmØ	A15	FIG B_18 Type D
S9	22.300	20.766	1.534	450mmØ	A15	Catchpit
S10	22.400	21.408	0.992	450mmØ	A15	FIG B_18 Type D
S11	22.400	21.540	0.860	450mmØ	A15	FIG B_18 Type D
HB	21.900	19.650	2.250	1200mmØ	A15	Hydrobrake

FOUL WATER MANHOLE SCHEDULE						
MANHOLE REFERENCE	COVER LEVEL	INVERT LEVEL	DEPTH TO INVERT	DIAMETER / SIZE	COVER TYPE	MANHOLE TYPE
F1	22.400	21.750	0.650	450mmØ	A15	FIG B_18 Type D
F2	22.400	21.725	0.675	450mmØ	A15	FIG B_18 Type D
F3	22.400	21.656	0.744	450mmØ	A15	FIG B_18 Type D
F4	22.400	21.507	0.893	450mmØ	A15	FIG B_18 Type D
F5	22.400	21.750	0.650	450mmØ	A15	FIG B_18 Type D
F6	22.400	21.727	0.673	450mmØ	A15	FIG B_18 Type D
F7	22.400	21.644	0.756	450mmØ	A15	FIG B_18 Type D
F8	22.400	21.572	0.828	450mmØ	A15	FIG B_18 Type D
F9	22.330	18.610	3.720	1200mmØ	A15	FIG B_09 Type B
F10	22.500	18.459	4.041	1200mmØ	A15	FIG B_09 Type B
F11	22.300	18.248	4.052	1200mmØ	A15	FIG B_09 Type B
F12	22.060	18.030	4.030	1200mmØ	A15	FIG B_09 Type B

- NOTES:
- All dimensions to be checked on site. All details and dimensions relating to sub-Contractors work must be checked and agreed between the sub-Contractor or supplier and the general Contractor.
 - This drawing is to be read in conjunction with all relevant Architect's and Engineer's drawings and specification.
 - The main Contractor is responsible for ensuring the stability of the structure whilst the works are in progress.
 - Any information given regarding existing underground services is given in good faith after consultation with the relevant authority. No liability is accepted by the Consultant and the main Contractor is responsible for obtaining and checking all information and taking due care and attention whilst undertaking the works.
 - All pipes, bends and junctions shall be verified clay to BS EN 295-1, with flexible joints and kitemark certified. Alternatively all pipes and fittings can be UPVC conforming to BS EN 1401-1 and shall be laid in accordance with the manufacturers specification. If UPVC pipes are to be used then the manufacturer shall be approved by the Engineer prior to construction.
 - All private building drainage shall be constructed in strict accordance with BS EN 752:1996. Unless otherwise specified adoptable sewers shall be 150mm diameter and shall be laid in a class S bedding. Where the depth to soffit is less than 1.2m under a public highway or 0.9m elsewhere the pipe shall be laid with a class Z bedding.
 - All adoptable sewers shall be in strict accordance with the current edition of Sewers For Adoption. Unless otherwise specified adoptable sewers shall be 100mm diameter and shall be laid at a minimum gradient of 1 in 40 for foul drains and 1 in 80 for surface water drains. All building drains shall be laid in class B bedding unless otherwise specified.
 - Where the service trench is near to the foundation of any building, refer to the guidance in Approved Document H, Building Regulations Part H1.
 - Where pipes, external to the structures, have a depth to soffit from ground level of less than 450mm they shall have a class GEN 3 concrete encasement (150mm thick). In all other cases the pipes shall be bedded and surrounded with 100mm thick granular material.
 - In any circumstances where pipes are bedded and surrounded in concrete flexible joints should be provided. Compressible boards (fibreglass or polystyrene) shall be provided at a maximum of 8m centres (coinciding with pipe joints). The boards shall be pre-cut to pipe diameter and to a height and width equal to the concrete cross section. A board thickness of 18mm for pipes up to 450mm nominal diameter and 36mm for pipes over 450mm nominal diameter.
 - All sumps shall have rodding access plates fitted at their bases (ground floor level).
 - Where existing pipes are to be abandoned they shall be dug out together with any abandoned manholes.

EXISTING SERVICES

- Information compiled from services plans received and reproduced in good faith. Specific locations to be confirmed on site prior to construction.

A	23.11.21	MJP	Drawing updated to client comments	SRM
REV	DATE	INT	DESCRIPTION	CHK

Issue Status FOR TENDER

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CLIENT	Stonechart Developments Ltd		
PROJECT	Elizabeth Huggins Cotages, Gravesend		
TITLE	Proposed Levels and Drainage Layout Plan		
DRAWN	M Pacifico	DATE	Sept 2021
ENGINEER	S Doughty	CHECKED	
SCALE	1:200 @ A1		
PROJECT NO.	23504		
DWG. NO.	201		
REV.	A		

