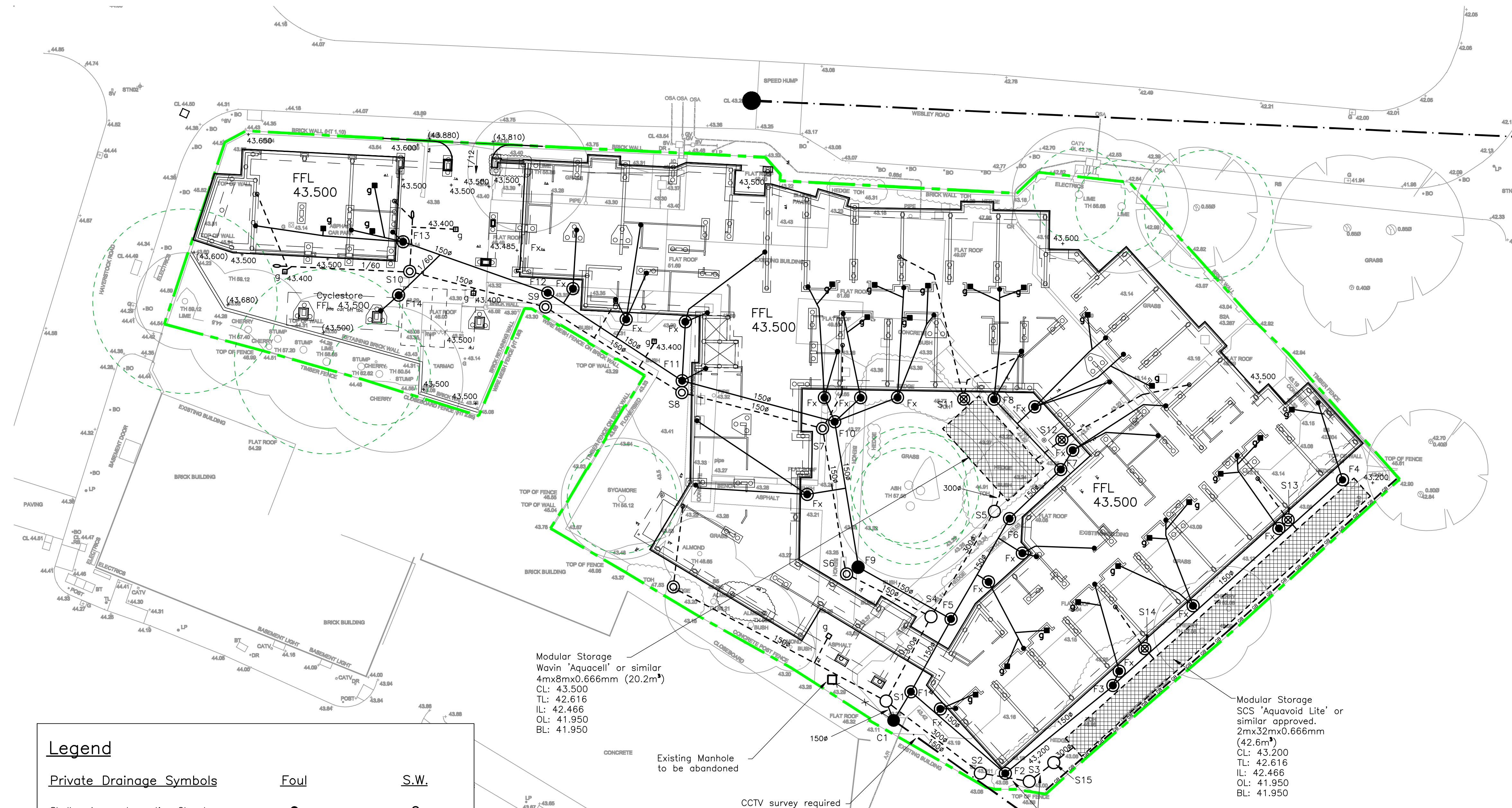




Legend

Private Drainage Symbols

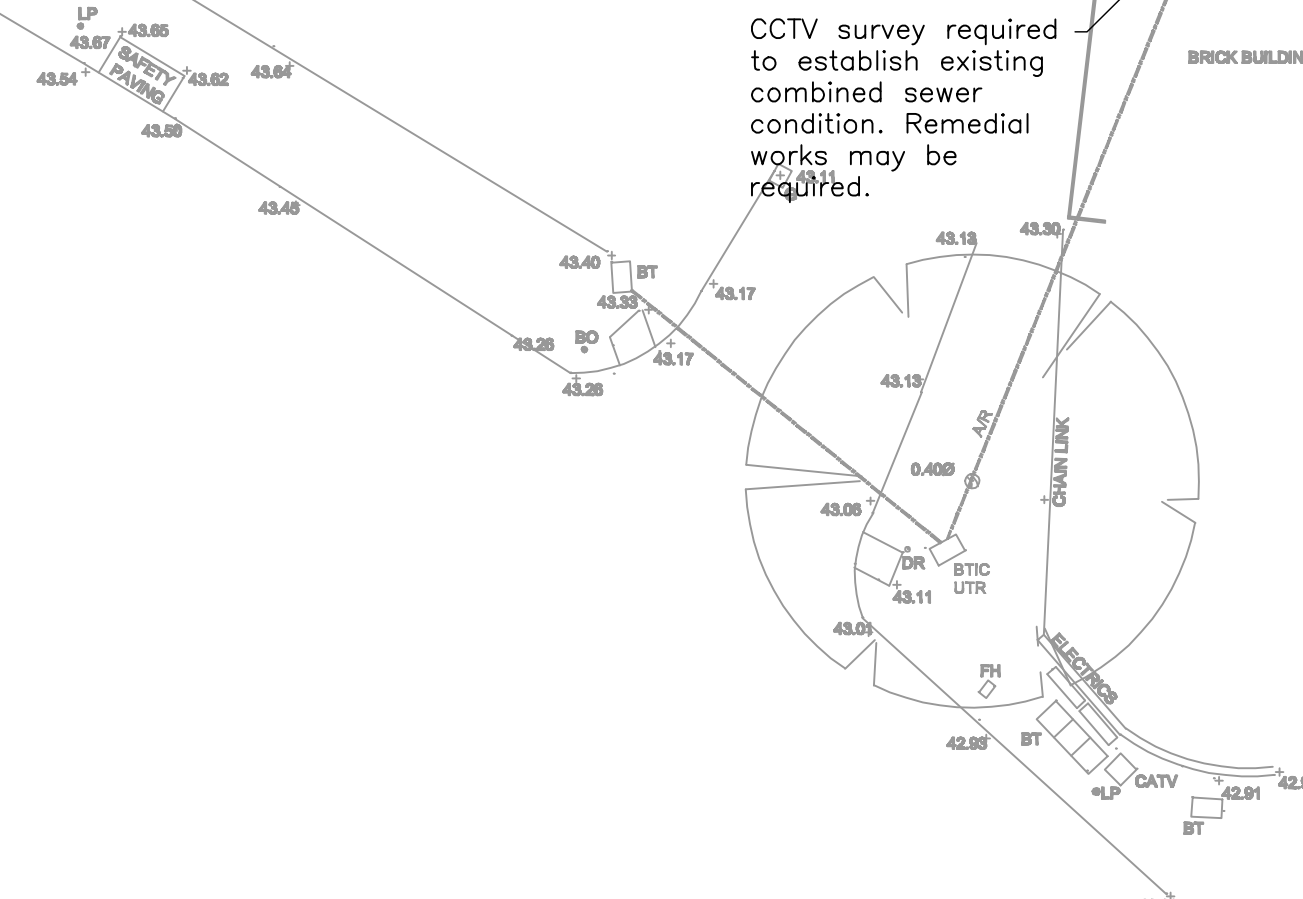
	Foul	S.W.
Shallow Access Inspection Chamber		
Polypropylene Inspection Chamber		
Constructed Manhole		
Catchpit		
Grease Trap		
Yard Gully/Drive Gully		
Rodding Eye		
Soil & Vent Pipe		
RWP		
Road Gully		
Channel Drain		
Modular Storage		
Existing Sewer		

Other Symbols

Site Boundary	
Root Protection Area	
Limit of Adoption Highway Boundary	
Retaining Structure	
Proposed Level	±100.000
Existing Level	±(100.000)
Dropped Kerb (25mm upstand)	DK25
Dropped Kerb (flush)	DK

Modular Storage
Wavin 'AquaCell' or similar
4mx8mx0.666mm (20.2m³)
CL: 43.500
TL: 42.616
IL: 42.466
OL: 41.950
BL: 41.950

Modular Storage
SCS 'Aquavoid Lite' or
similar approved.
2mx32mx0.666mm
(42.6m³)
CL: 43.200
TL: 42.616
IL: 42.466
OL: 41.950
BL: 41.950



General Drainage Notes

- All highway drainage to be designed and constructed in accordance with London Borough of Camden design guide and specification.
- All adoptable drainage to be designed and constructed in accordance with Water Authorities Association "Sewers for Adoption" (6th edition).
- Use only figured dimensions, do not scale, refer to setting out drawings.
- All proposed and relevant existing levels are to be checked prior to construction start and any discrepancies referred back to the Engineer.
- Gradients of parking areas to be checked prior to finalising slab levels.
- Cover levels of manholes and inspection chambers are for information only and must not be used for setting out purposes.
- Road gully connections to be 150 mm diameter.
- Positions shown for gullies in parking area are indicative only and are to be adjusted on site to suit levels.
- All low points are to have gullies.
- Invert levels of existing manholes are to be checked prior to construction and any discrepancies are to be reported to the engineer immediately.

Private Drainage

Private drainage design and construction to comply with NHBC requirements and BS EN 752.

- Drainage from units to be plastic pipework to BS EN 13598, inspection chambers to be compatible with the system used. Manholes to be constructed of either pre-cast concrete components to BS 5911 or Class B engineering bricks to BS EN 772.
- Foul drainage to be at 1 in 40 at heads & 1 in 60 elsewhere unless otherwise shown.
- Surface water drainage to be at 1 in 80 unless otherwise shown.
- Invert levels of rodding eyes to be 600 mm below external ground level unless otherwise shown.
- All drainage to be 100 mm diameter unless otherwise shown.
- For private drainage yard gullies are to be used for areas greater than 2No parking bays, drive gullies are to be used for areas no greater than 2No parking bays.
- Where two pipes cross each other beneath a trafficked area with a separation of less than 150mm - both to have Class 'A' surround 500mm either side of crossing point.
- Where proposed drainage connects into an existing sewer or existing manhole the invert level of the existing sewer or manhole shall be confirmed on site at least 5 working days prior to the commencement of any drainage works and the Engineer immediately informed.

General Notes

- Any indication of site boundaries are to be considered diagrammatic. This Engineering Layout is based on layouts prepared by others and our details are not in themselves intended to be any definition of land ownership.
- The contractor shall check all levels and dimensions, any errors or omissions are to be reported to the Engineer.
- All information regarding below ground obstructions has been added to our general arrangement drawing as far as we are reasonably able to obtain at the time. The contractor shall allow for breaking outobstructions where necessary and increasing the depth of foundations to a suitable and approved formation, in accordance with our details.
- Do not scale from drawing

For Private Drainage Details refer to drawing 9776.W401

For Private Road Construction details refer to drawing 9776.W402

Locations of SVP's and RWP's to be in accordance with Architects latest layouts.

Works to existing Public Highway subject to London Borough of Camden's Approval.

Connection to existing sewer subject to a Section 106 Agreement with Thames Water

MANHOLE SCHEDULE – PRIVATE						
MANHOLE	COVER LEVEL	INVERT LEVEL	DEPTH IN METRES	CHAMBER SIZE(mm)	COVER TYPE	REMARKS
SURFACE WATER						
S1#	43.500	41.800	1.700	1200ø	D400	PC RING
S2	43.500	47.850	1.650	600ø	B125	D–PPIC
S3	43.500	41.900	1.600	600ø	B125	D–PPIC
S4	43.500	41.850	1.650	1200ø	B125	PC RING
S5~	43.500	41.900	1.900	1200ø	B125	PC RING
S6	43.500	42.100	1.400	480ø	B125	D–PPIC
S7	43.500	42.200	1.300	480ø	B125	D–PPIC
S8	43.500	42.350	1.150	480ø	A15	PPIC
S9	43.500	42.500	1.000	480ø	A15	PPIC
S10	43.500	42.620	0.880	480ø	A15	PPIC
S11~	43.500	42.600	0.900	480ø	A15	PPIC
S12~	43.500	42.600	0.900	480ø	A15	PPIC
S13~	43.500	42.600	0.900	480ø	A15	PPIC
S14~	43.500	42.600	0.900	480ø	A15	PPIC
S15~	43.400	41.925	1.800	1200ø	B125	PC RING

PC RING – Pre-cast Concrete Ring
D–PPIC – Deep Inspection Chamber
PPIC – Polypropylene Inspection Chamber
– Denotes Flow control Chamber. Flow limited to 12l/s @ 0.7m Head using Hydrobrake or similar approved.
~ – Denotes Catchpit Chamber (Min. 300mm sump)

MANHOLE SCHEDULE – PRIVATE						
MANHOLE	COVER LEVEL	INVERT LEVEL	DEPTH IN METRES	CHAMBER SIZE(mm)	COVER TYPE	REMARKS
FOUL WATER						
C1*	43.350	41.590	1.760	1200ø	D400	PC RING
F1	43.500	42.150	1.350	600ø	B125	D–PPIC
F2	43.500	42.240	1.260	600ø	B125	D–PPIC
F3	43.500	42.350	1.150	480ø	A15	PPIC
F4	43.500	42.600	0.900	480ø	A15	PPIC
F5	43.500	42.200	1.300	600ø	B125	D–PPIC
F6	43.500	42.400	1.100	480ø	A15	PPIC
F7	43.500	42.460	1.040	480ø	A15	PPIC
F8	43.500	42.650	0.850	480ø	A15	PPIC
F9	43.500	42.270	1.230	600ø	B125	D–PPIC
F10	43.500	42.360	1.140	480ø	A15	PPIC
F11	43.500	42.450	1.100	480ø	A15	PPIC
F12	43.500	42.550	0.950	480ø	A15	PPIC
F13	43.500	42.700	0.800	480ø	A15	PPIC
F14	43.500	47.750	0.750	480ø	A15	PPIC
Fx	43.500	46.650	0.850	480ø	A15	PPIC

PC RING – Pre-cast Concrete Ring
D–PPIC – Deep Inspection Chamber
PPIC – Polypropylene Inspection Chamber
* – Manhole to be built on existing Sewer. Levels to be confirmed prior to construction.

PRELIMINARY

REV.	DATE	DESCRIPTION	BY	CHK'D
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TITLE:
Engineering Layout

PROJECT:
Camden Homes For Older People.

SCALE: 1:200@A1 DATE: Mar'12 DRAWN: CR CHK'D:
JOB NO. 9776 ORG NO. W400 REV.

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