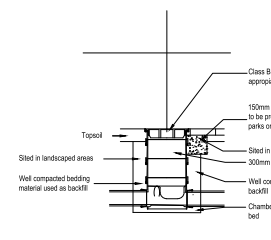
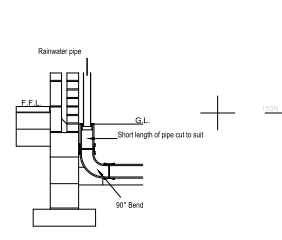




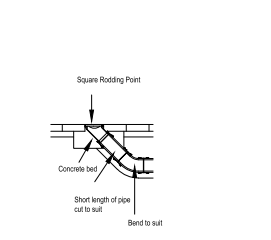
SOIL & VENT PIPE STUB STACK OR WC CONNECTION
NOT TO SCALE



MINI ACCESS CHAMBER DETAIL



EXTERNAL RAINWATER PIPE
NOT TO SCALE



RODDING POINT DETAIL
NOT TO SCALE

NOTES

- This drawing is copyright. No unauthorised copying or drawing without the express permission of the architect.
- Do not scale from prints. Use figure dimensions only.
- Contractors to check all dimensions on site prior to commencement of work.
- All works to be carried out in accordance with current statutory Health and Safety Regulations.
- This drawing is to be read in conjunction with all relevant consultants' and/or specialists' drawings / documents and any discrepancies or variations are to be notified to the architect before affected work commences.

THIS DRAWING IS PROVIDED FOR THE SOLE PURPOSE OF APPLICATIONS FOR APPROVAL TO REGULATE THE EXTENT OF THE WORK REQUIRED. THIS INFORMATION SHOULD NOT BE RELIED UPON FOR PRICING AND IS NOT FOR CONSTRUCTION.

H SANITARY FITTINGS & PIPEWORK.
To comply with BS5572.
All soil and vent pipes and accessories to be 100mm uPVC to BS4574 and filled with rodding access at base. The lowest vent into a soil vent pipe shall be not closer than 450mm from the bend at the base of the stack. All soil ventilation pipes shall terminate a minimum of 300mm above any operable window. Internal 100mm vent pipes to connect to proprietary ridge ventilator.
Rodding access points shall be provided at all changes in direction in the above ground drainage system.
Main branch pipework and accessories to be 100mm uPVC to BS5235. It shall also rise to all drains, showers, wash basins and baths with minimum vertical distance to 150mm and horizontal distance 3m. Over 3m the branch shall be vented direct to external air or fixed with an air admittance valve.
Install pipes, fittings and accessories in accordance with BS 8007 Part 13 Section 3 and BS 5572. Pipe fittings and joints shall be air tested to a positive pressure of at least 30mm water gauge for at least 3 mins.
Every trap shall maintain a water seal of at least 25mm.

H Foul Water Drainage Below Ground.
Before starting work check the levels and positions of existing drains, inspection chambers and manholes against the drawings and report any discrepancies to the Architect.
Foul drainage system shall be flexible pipes to BS EN 1401 laid in full accordance with manufacturers instructions.
Cover Gullies: Minimum cover 0.6m - Maximum cover 7.0m.
Footpaths and driveways: Minimum cover 0.3m - Maximum cover 7.0m.
All pipes with less than the recommended cover shall be encased in minimum 100mm concrete with movement joints formed with components level at least 100mm above the surface prior to laying Bedding & backfilling.
Flexible pipes are to be laid with bedding class S2 with 80% compaction. Lay pipes on minimum 100mm granular fill bed of graded material class S10 to same material to backfill around pipe to line level with top of pipe. Backfill over pipe with 300mm selected fill free from stones larger than 40mm. Backfill remainder of trench with selected fill to suit required finish.
Pipe gradients
All below ground foul drainage shall be minimum 100mm diameter pipe to connection with main sewer.
The minimum gradient at which foul drains are to be laid shall be in accordance with table 9 to regulation H1. 1:50 subject to the drain serving a minimum of 1 WC, otherwise a minimum gradient of 1:40.
Pipes penetrating walls
All pipes passing through walls shall pass through a linked opening allowing 50mm clearance around the pipe. Opening to be made on both sides with rigid sheet material.
Convey with self-protection requirements detailed elsewhere.
Bends at base of not stack
Unless specified otherwise, use a 90deg red bend with a minimum radius of 400mm to centre of the pipe. Level of the bend at the base of stack to be not less than 450mm below centreline of lowest branch pipe.
Access
Minimum dimensions of access points shall be in accordance with Table 9 to regulation H1.
Minimum spacing of access points shall be in accordance with Table 10 to regulation H1.
A pressure trap shall be installed to interrupt the waste water outflow from the kitchens.
Testing
Upon completion the drainage system shall be water tested in sections to a pressure equal to 1.5m head of the drain (max 4.0m head).
Leakage should be measured over 30mins and should not exceed 0.05 litres for each metre run of the drain.

H2 SURFACE WATER DRAINAGE
The general provisions for the installation of the surface water drainage system including depth of cover, access, bedding & backfilling, pipes passing through walls and testing shall be as the foul drainage system.
Pipe gradients
All below ground surface water drainage shall be minimum 100mm diameter. The minimum gradient at which surface water drains are to be laid shall be 1:100.
Drainage of paved areas
Small paved areas around the site shall be free draining to adjacent garden areas, the paving set slightly above the surrounding gardens and with a minimum gradient or crossfall of 2.0%.
Larger paved areas are drained to the new surface water drainage system via channels and gullies & French to the new surface water drainage system & soakaways located within the garden areas.

H3 RAINWATER DRAINAGE
Proprietary rainwater system to be installed in full accordance with the manufacturers instructions to ensure the complete discharge of rainwater from the building without backing.
All down pipes shall be black 75mm dia uPVC (TBC).
All gutters shall black uPVC - profile (TBC).
Where a rainwater pipe is required to discharge onto a lower roof or a pipe where it will be fixed to direct the flow away from the building, the rainwater pipe shall generally discharge into back fill gullies connected to the new surface water drainage system leading to soakaway within the curtilage.

SOAKAWAYS
Soakaways shall be designed in accordance with DCS305 2016 subject to satisfactory penetration tests and calculations to be submitted to the BCS for approval to include surface water runoff from all roof and paved areas to be accommodated:
1) A no pipe system surcharge during a 1 in 2 year storm plus 30% for climate change
2) No surface flooding during a 1 in 30 year storm plus 30% for climate change
3) No internal flooding to property including access and egress areas during a 1 in 100 year storm plus 30% for climate change

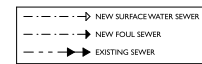
H5 SOLID WASTE STORAGE
Solid waste shall be stored in wheeled containers with close fitting lids with a combined storage capacity of 2.2m³

FW DRAINAGE

Manhole Ref	Cover level	Invert level	Depth to invert	Depth to soffit	Pipe Size Dia mm	Chamber Dia mm	Chamber Type	Grade of Cover	Notes
F1	48.50	47.45	1050	900	150	450	PPIC	A125	Existing backdrop manhole
F2	48.30	47.50	700	600	100	450	PPIC	B125	
F3	49.05	48.15	900	800	100	300	PPIC	B125	Mini access chamber
F4	49.00	48.05	950	850	100	450	PPIC	A15	
F5	49.08	48.18	900	800	100	300	PPIC	B125	Mini access chamber
F6	49.08	47.90	1180	1080	100	450	PPIC	B125	
F7	49.00	TBA	TBA	100	600	PPIC	B125	B125	Backdrop manhole to run through to F11
F8	49.20	48.10	1100	1000	100	450	PPIC	B125	
F9	49.40	48.60	800	700	100	450	PPIC	B125	
F10	49.40	48.70	700	600	100	300	PPIC	B125	Mini access chamber
F11	TBA	TBA	TBA	TBA	Eng	Eng	Eng	Eng	Existing manhole to be surveyed
F12	49.25	48.05	1200	1100	100	300	PPIC	B125	Mini access chamber

SW DRAINAGE

Manhole Ref	Cover level	Invert level	Depth to invert	Depth to soffit	Pipe Size Dia mm	Manhole Dia mm	Manhole Type	Grade of Cover
S1	49.00	48.15	850	750	100	450	PPIC	B125
S2	48.95	47.80	1150	1050	100	450	PPIC	A15
S3	49.00	47.70	1300	1200	100	450	PPIC	A15
S4	49.30	48.30	1000	900	100	450	PPIC	B125
S5	49.30	48.20	1100	1000	100	450	PPIC	B125
S6	49.38	48.40	980	880	100	450	PPIC	A15



Scale 1:100 0 1 2 3 4 5m

THIS DRAWING IS FOR STATUTORY APPROVALS NOT FOR CONSTRUCTION
ALL DIMENSIONS ARE SUBJECT TO VERIFICATION

REV	AMENDMENT	DATE
Project	HOLLIS HOUSE FARM, HOLLIS LANE, BURY	
Drawing	PROPOSED DRAINAGE PLAN	
Client	Mr & Mrs W Nield	
Dwn. By	mc	
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