

FILENAME

PLOT DATE

0 mm 10 20 30 40 50

STORM WATER NETWORK						
Manhole Name	Easting	Northing	Connected Pipes	Cover Level	Manhole Size Depth to Soffit	Manhole Type Cover Type
SW1	374356.378	442588.682	225mm 1.000 Inv.80.320	81.745	1,350 1,200	UU Type 4 Double 1200x675 Clear Opening
SW2	374345.853	442573.371	225mm 1.000 Inv.80.209 300mm 1.001 Inv.80.134	81.820	1,350 1,386	UU Type 4 Double 1200x675 Clear Opening
SW3	374326.574	442542.887	300mm 1.001 Inv.79.987 300mm 1.002 Inv.79.987	81.712	1,350 1,425	UU Type 4 Double 1200x675 Clear Opening
SW4	374357.544	442525.285	300mm 1.002 Inv.79.734 375mm 1.003 Inv.79.659	81.234	1,350 1,200	UU Type 4 Double 1200x675 Clear Opening
SW5	374380.518	442511.104	375mm 1.003 Inv.79.479 375mm 2.000 Inv.79.479 450mm 1.004 Inv.79.444	81.085	1,800 1,231	UU Detail 4 Shallow MH Double 1200x675 Clear Opening
SW6	374398.081	442543.298	450mm 1.004 Inv.79.313 525mm 1.005 Inv.79.238	81.222	2,100 1,459	UU Detail 4 Shallow MH Double 1200x675 Clear Opening
SW7	374409.998	442556.795	525mm 1.005 Inv.79.194 450mm 3.000 Inv.79.269 525mm 1.006 Inv.79.194	81.043	2,400 1,324	UU Detail 4 Shallow MH Double 1200x675 Clear Opening
SW8 HEADWALL	374420.255	442549.614	525mm 1.006 Inv.78.400	N/A	N/A	N/A
SW9 HEADWALL	374419.638	442544.550	750mm 1.008 Inv.78.300	N/A	N/A	N/A
S10 HYDROBRAKE	374412.909	442535.521	750mm 1.008 Inv.78.275 750mm 1.009 Inv.78.275	81.000	2,400 1,975	UU Detail 5 Double 1200x675 Clear Opening
SW11	374419.594	442519.305	750mm 1.009 Inv.78.240 750mm 1.010 Inv.78.240 750mm CULVERT Inv.78.240	80.800	1,800 1,802	UU Detail 4 Shallow MH Double 1200x675 Clear Opening
SW12	374436.880	442506.680	750mm 1.010 Inv.78.185 750mm 1.011 Inv.78.185	79.835	1,800 0,900	UU Detail 4 Shallow MH Double 1200x675 Clear Opening
SW13	374410.100	442468.930	750mm 1.011 Inv.78.075 750mm 1.012 Inv.78.075	79.725	1,800 0,900	UU Detail 4 Shallow MH Double 1200x675 Clear Opening
SW14	374403.980	442463.390	750mm 1.012 Inv.78.030	79.980	1,800 1,200	UU Detail 4 Shallow MH Double 1200x675 Clear Opening
SW15	374368.290	442488.889	375mm 2.000 Inv.79.558	80.809	1,500 0,876	UU Detail 4 Shallow MH Double 1200x675 Clear Opening
SW16	374425.645	442586.317	450mm 3.000 Inv.79.352	80.628	2,100 0,826	UU Detail 4 Shallow MH Double 1200x675 Clear Opening
SW17	374436.943	442550.750	400x600mm EXISTING Inv.78.330 750mm CULVERT Inv.78.330	80.500	1,800 1,420	UU Detail 4 Shallow MH Double 1200x675 Clear Opening

HIGH FRICTION SURFACE
COVERS TO BE USED FOR ALL
CHAMBERS IN ROADS.

NOTES:

- ALL SEWERS ARE DESIGNED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION AND UNITED UTILITIES GUIDELINES AND STANDARD DETAILS.
- ALL CO-ORDINATES AND LEVELS SHOWN ARE RELATIVE TO THE TOPOGRAPHIC SURVEY.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THE LINE AND LOCATION OF ANY EXISTING SEWERS, AS WELL AS ANY EXISTING GROUND AND INVERT LEVELS SHOWN ON THE DRAWING ARE CORRECT PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES MUST BE MUST BE REPORTED IMMEDIATELY.
- PRIOR TO THE COMMENCEMENT OF ANY ON SITE WORKS THE CONTRACTOR MUST CONTACT THE STATUTORY UNDERTAKER AND BE IN POSSESSION OF THE LATEST DRAWINGS SHOWING THEIR APPARATUS.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ALLOW FOR THE SUPERVISION OF THE CONSTRUCTION WORKS BY UNITED UTILITIES AND/ OR THE HIGHWAYS AUTHORITY. THE CONTRACTOR WILL NOTIFY THE SUPERVISING OFFICER GIVING NOTICE WHICH WILL BE IN ACCORDANCE WITH THE AUTHORITIES REQUIREMENTS.
- THE PROPOSED SEWERS WILL BE CLAY PIPE WORK AND SHALL BE EXTRA STRENGTH TO BS EN 295:1991 PART 1.
- ANY PCC PIPE WORK WILL BE IN ACCORDANCE WITH BS EN 1916:2002.
- ALL MANHOLES AND CHAMBERS SHALL BE IN ACCORDANCE WITH BS EN 1917:2002
- SEWERS WITH COVER TO SOFFIT GREATER THAN 1.2m IN ROADS AND 0.9m IN FIELDS SHALL HAVE BED AND SURROUND AS FOLLOWS: RIGID PIPE EMBEDMENT SHALL BE CLASS S. SEMI RIGID PIPE EMBEDMENT SHALL BE CLASS S ALL IN ACCORDANCE WITH UNITED UTILITIES STANDARD DETAIL STD/05/001.
- PRIVATE DRAINAGE CONNECTIONS TO THE SEWER WILL BE 150MM DIAMETER AND LAID TO THE SPECIFIED INVERT.
- THE INVERT LEVELS SPECIFIED AT THE DRAG OUT CHAMBER ARE INCOMING LEVELS.
- WHEREVER POSSIBLE PRIVATE DRAINAGE RUNS WILL REMAIN WITHIN THE CURTILAGE OF THE DWELLING FOR WHICH THEY SERVE.
- THE CONNECTION TO THE ADOPTABLE SEWER SHALL BE MANUFACTURED JUNCTION PIPES A SADDLE CONNECTION IS NOT PERMITTED UNLESS IT IS CLEARLY SPECIFIED.
- ANY SEWER FOR ADOPTION WITH A COVER OF LESS THAN 1.2M TO PIPE SOFFIT IN ROADS OR 0.9m TO PIPE SOFFIT IN FIELDS WILL HAVE A MINIMUM 150mm GEN 3 CONCRETE BED AND SURROUND WITH FLEXIBILITY MAINTAINED WITH FLEXCELL EXPANSION JOINT FILLER OR SIMILAR APPROVED AT EACH PIPE JOINT.
- CONNECTIONS TO THE EXISTING SEWER WILL BE IN ACCORDANCE WITH SECTION 104 APPROVAL GRANTED BY UNITED UTILITIES.
- CONNECTIONS TO THE EXISTING WATERCOURSE WILL BE IN ACCORDANCE WITH APPROVAL GRANTED BY THE EA.

P10	01.07.22	High Friction Surfacing Covers note added	J.C.	R.A.	
P09	21.04.22	Drainage updates	H.S.	M.A.	
P08	15.02.22	SW16 updated	H.S.	R.A.	
P07	08.12.21	SW Manhole update in line with SW14 IL change	H.S.	R.A.	
P06	18.09.20	PRELIMINARY - Updated to suit LLFA comments	D.A.	R.A.	
Rev	Date	Description	By	CHK	

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Project Name
**HAWTHORNE FARM
CLITHEROE**

Client
PERSIMMON HOMES

Designed	Drawn	Checked	Scale @/ A1
D.A	D.A	R.A	N/A

Drawing Title
**SURFACE WATER
MANHOLE SCHEDULES**

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