

DESIGNERS HAZARD IDENTIFICATION
 IT IS ASSUMED THAT ALL WORKS WILL BE UNDERTAKEN BY A COMPETENT CONTRACTOR WORKING WHERE APPROPRIATE TO AN APPROVED METHOD STATEMENT. IN ADDITION TO THE HAZARDS TYPICALLY ASSOCIATED WITH THE TYPE OF CONSTRUCTION DETAIL ON THIS DRAWING, ANY KNOWN ABNORMAL HAZARDS SPECIFIC TO THIS DRAWING HAVE BEEN IDENTIFIED.



- DO NOT SCALE FROM THIS DRAWING AS IT MAY NOT BE REPRODUCED TO SCALE.
- PLEASE REPORT ANY DISCREPANCIES TO DUDLEYS CONSULTING ENGINEERS PRIOR TO CONSTRUCTION.

YORKSHIRE WATER GENERAL NOTES

- ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH SEWERAGE SECTOR GUIDANCE DESIGN AND CONSTRUCTION GUIDANCE (CODE FOR ADOPTION). THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATERS STANDARDS/REQUIREMENTS/LOCAL PRACTICE FOR THE ADOPTION OF SMALL SUBMERSIBLE FOULED SURFACE WATER PUMPING STATIONS AND KITEMARKED.
- MANHOLE COVERS SHALL HAVE A CLEAR OPENING OF 600MM AND SHALL BE CLASS D400 TO BS EN 124 WITH 150MM DEEP FRAMES IN HIGHWAYS.
- FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
- YORKSHIRE WATER IS NOT OBLIGED TO ACCEPT FILTER DRAINLAND DRAINAGE RUN-OFF INTO THE PUBLIC SEWER NETWORK OR ACCEPTABLE DRAINAGE SYSTEM (DIRECTLY OR IN-DIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUN-OFF WILL THEREFORE BE REQUIRED AND YOU WILL HAVE TO LIAISE WITH THE LOCAL AUTHORITY. LAND DRAINAGE SECTION WITH REGARD TO THE DISPOSAL OF THE FILTER DRAINLAND DRAINAGE RUN-OFF.
- THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1M AND MANHOLES 0.5M FROM KERB FACES AND SERVICE MARGINS.
- SEWERS MUST HAVE 5 METRES CLEARANCE FROM TREES AND HEDGES OR THE WIDTH OF THE CANOPY AT MATURE HEIGHT.
- SEWERS TO BE LAID IN CLASS "S" BEDDING (150MM GRANULAR BED AND SURROUND). WHERE DEPTH OF COVER TO TOP OF THE SEWER IS LESS THAN 1.2M IN HIGHWAYS AND VERGES (OR LESS THAN 900MM IN NONE VEHICULAR ACCESS AREAS) THEN A CONCRETE SLAB SHOULD BE PROVIDED ABOVE GRANULAR BED AND SURROUND.
- BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-02 (TABLE A2).
- YORKSHIRE WATER POLICY IS THAT TYPE "C" BRICK MANHOLES AND 1050MM DIA. MANHOLE RINGS ARE NOT PREFERRED. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE "B" MANHOLE WITH 1200MM DIA OR 1500MM DIA RINGS, WITH THE OPENING SITED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1 - 1.5M.
- ADOPTABLE PLASTIC SEWER PIPES TO BE BS1 KITEMARKED (CERTIFIED TO WS-4-35-01 AND BS EN 13476). ADOPTABLE PLASTIC SEWER PIPES TO BE LAID IN MAXIMUM 3 METRE LENGTHS UNLESS THERE IS A SPECIFIC OPERATIONAL NEED TO LAY LONGER LENGTHS. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD PREFER CLAYWARE CHANNEL IN MANHOLES.
- THE MINIMUM CRUSHING STRENGTH FOR CLAY PIPES SHOULD BE AS FOLLOWS: 100MM DIA. 40KN/M, 150MM DIA. 40KN/M, 225MM DIA. 45KN/M AND 300MM DIA. 72KN/M. THE MINIMUM CRUSHING STRENGTH FOR CONCRETE PIPES SHOULD BE - (CLASS 130 TO EN 13166/5591-1-2002). PLASTIC PIPES SHOULD CONFORM TO WS-4-35-01 AND BS EN 13476.
- WHERE A B125 COVER AND FRAME HAS BEEN APPROVED, THIS MUST NOT BE COATED IN PLASTIC AND MUST HAVE LIFTING EYES SUITABLY SIZED TO ACCOMMODATE STANDARD LIFTING KEYS. SCREW DOWN COVERS ARE NOT ACCEPTABLE.
- THERE MUST BE ENOUGH CLEARANCE AT CROSSOVERS TO ACCOMMODATE BEDDING TO BOTH PIPES. APPROX. 300MM. IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY NEED TO BE INCREASED.

Node ID	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Manhole Type	Connections	Link ID	IL (m)	Dia (mm)	MH Material	Cover	Depth (SOFFIT) (m)
1	423349.019	410877.291	147.900	1.500	1200	C	1 0	LATERAL 1.000	146.550 146.400	150 300	PCC	D400 600 X 600	1.200
2	423354.257	410921.841	146.815	1.697	1200	C	1 2 0	1.000 LATERAL 1.001	145.118 145.268 145.118	300 150 300	PCC	D400 600 X 600	1.397
3	423359.883	410932.604	146.541	1.727	1200	C	1 2 0	1.001 LATERAL 1.002	144.814 BD 145.650 144.814	300 150 300	PCC	D400 600 X 600	1.427
4	423382.106	410954.204	145.397	1.823	1200	B	1 0	1.002 1.003	143.574 143.574	300 300	PCC	D400 600 X 600	1.523
5	423389.293	410968.430	144.268	1.823	1200	C	1 2 0	1.003 LATERAL 1.004	142.520 142.670 142.445	300 150 375	PCC	D400 600 X 600	1.448
6	423400.559	410973.530	143.480	1.869	1200	C	1 0	1.004 1.005	141.611 141.611	375 375	PCC	D400 600 X 600	1.494
7	423461.189	410927.404	138.500	2.765	N/A	TANK JUNCTION	0	2.000	135.735	600	PCC	D400 600 X 600	2.165
8	423464.786	410932.669	138.500	2.778	1500	B	1 0	2.000 2.001	135.722 135.722	600 600	PCC	D400 600 X 600	2.178
9	423468.859	410944.199	138.769	3.071	1500	B	1 2 0	2.001 LATERAL 2.002	135.698 BD137.755 135.698	600 150 600	PCC	D400 600 X 600	2.471
10	423480.156	410965.635	138.517	2.867	1500	B	1 2 0	1.005 2.002 1.006	135.875 135.650 135.650	375 600 600	PCC	D400 600 X 600	2.267
11	423488.473	410979.647	138.402	2.835	1800	refer to 21374/130	1 2 0	1.006 LATERAL 1.007	135.617 BD137.192 135.567	600 150 300	PCC	TWIN 600 X 600	2.185

ADOPTABLE SURFACE WATER MANHOLE SCHEDULE

Node ID	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Manhole Type	Connections	Link ID	IL (m)	Dia (mm)	MH Material	Cover	Depth (SOFFIT) (m)
1	423359.348	410928.827	146.558	2.158	1200	B	1 2 0	LATERAL LATERAL 1.000	BD 145.479 144.400 144.400	150 150 150	PCC	D400 600 X 600	2.008
2	423383.659	410952.242	145.376	2.376	1200	B	1 0	1.000 1.001	143.000 143.000	150 150	PCC	D400 600 X 600	2.226
3	423390.925	410966.672	144.335	2.335	1200	B	1 0	1.001 1.002	142.000 142.000	150 150	PCC	D400 600 X 600	2.185
4	423402.559	410971.835	143.384	2.244	1200	B	1 0	1.002 1.003	141.140 141.140	150 150	PCC	D400 600 X 600	2.094
5	423477.322	410964.419	138.590	0.747	1200	SHALLOW MH REFER TO YW TYPICAL DETAIL	1 2 0	1.003 LATERAL 1.004	137.843 137.740 137.843	150 150 150	PCC	TWIN 600 X 600	0.597
6	423483.657	410976.767	138.449	0.800	1200	SHALLOW MH REFER TO YW TYPICAL DETAIL	1 2 0	1.004 LATERAL 1.005	137.649 137.649 137.649	150 150 150	PCC	TWIN 600 X 600	0.650
7	423505.604	410977.222	139.100	1.614	1200	C	1 0	1.005 1.006	137.486 137.486	150 150	PCC	D400 600 X 600	1.464
8	423505.928	410967.677	138.120	0.705	1200	SHALLOW MH REFER TO YW TYPICAL DETAIL	1 0	1.006 EXISTING	137.415 137.340	150 225	PCC	TWIN 600 X 600	0.555

ADOPTABLE FOUL WATER MANHOLE SCHEDULE

ATTENUATION TANK ACCESS SHAFTS SCHEDULE								
Node ID	Easting (m)	Northing (m)	CL (m)	Depth to IL(m)	Dia (mm)	MH Material	Cover	
SW01	423459.938	410926.660	138.500	2.765	1800	PCC	D400 TWIN 675 X 610	
SW02	423454.159	410930.609	138.500	2.745	1200	PCC	D400 600 X 600	
SW03	423448.991	410923.046	138.500	2.721	1200	PCC	D400 600 X 600	
SW04	423454.771	410919.097	138.500	2.742	1200	PCC	D400 600 X 600	

Date	Revision	By	Chkd	Ref
14.03.24	CONSTRUCTION ISSUE			

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Project
**LOVELL HOMES
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 Title
**ADOPTABLE SW & FW
 MANHOLE SCHEDULES**

Scale	N/A	Paper	A0	Drawn	MDJ	Check	PD
Date	JAN 23	Status	CONSTRUCTION				
Job No.	21374	Dwg. No.	120	Rev.	A		