

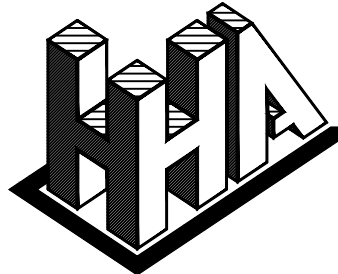
1. ALL ADOPTABLE SEWER WORKS AND MATERIAL TO BE IN ACCORDANCE WITH 'CODES FOR ADOPTION', THE RELEVANT BRITISH/EUROPEAN AND YORKSHIRE WATER'S STANDARDS/REQUIREMENTS/ADDENDUM TO THE MECHANICAL AND ELECTRICAL SPECIFICATION AND KITEMARKED.
2. MANHOLE COVERS SHALL/MUST HAVE A CLEAR OPENING OF 600mm AND SHALL BE CLASS D400 TO BS EN 124 WITH 150mm DEEP FRAMES IN HIGHWAYS.
3. FILLED GROUND MUST BE FILLED AND CONSOLIDATED UNDER THE SUPERVISION AND TO THE SATISFACTION OF YORKSHIRE WATER BEFORE ANY SEWER WORKS ARE CARRIED OUT.
4. YORKSHIRE WATER IS **NOT** OBLIGED TO ACCEPT FILTER DRAIN/LAND DRAINAGE RUNOFF INTO THE PUBLIC SEWER NETWORK OR ADOPTABLE DRAINAGE SYSTEM (DIRECTLY OR INDIRECTLY). AN ALTERNATIVE METHOD OF DISPOSAL OF THE LAND DRAINAGE RUNOFF 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 DRAIN/LAND DRAINAGE RUNOFF.
5. COVER SLABS MUST CARRY THE BSI KITEMARK OR WILL BE REJECTED BY YORKSHIRE WATER INSPECTOR. WHERE THE CLEAR OPENING OF THE KITEMARKED PRODUCT IS DIFFERENT TO THAT OF THE COVER AND FRAME, A LOADING BEARING SLAB SHOULD BE FITTED ABOVE THE COVER SLAB TO BRING THE SIZE DOWN TO 600x600mm FOR THE YORKSHIRE WATER SPECIFIED COVER SIZE. PLEASE REFER TO CONCRETE PIPE SYSTEMS ASSOCIATION (CPSA), 'TECHNICAL BULLETIN' ISSUED AUTUMN 2004 FOR KITEMARKED COVER SLAB OPENING SIZES.
6. SULPHATE RESISTANT CEMENT (C20-DC2) AND PRECAST CONCRETE PRODUCTS MUST BE USED OR A LABORATORY REPORT PROVIDED PROVING THAT SUCH PRECAUTIONS ARE NOT NECESSARY.
7. THE ADOPTABLE SEWERS SHOULD BE A MINIMUM OF 1m AND MANHOLES 0.5m FROM KERB FACES.
8. SEWERS MUST HAVE 5m CLEARANCE FROM TREES AND HEDGES
9. 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 175mm CONCRETE SLAB OVER SEWER SHALL BE PROVIDED.
10. ALL PIPEWORK 300mm DIAM. OR LESS TO BE VITRIFIED CLAY CONFORMING WITH BS 65. MINIMUM CRUSHING STRENGTHS TO BE AS FOLLOWS. 100mm DIA. 40kN/m, 150mm DIA 40kN/m, 225mm DIA 45kN/m, 300mm DIA 72kN/m.
11. ALL PIPEWORK 375mm DIAM. OR GREATER TO BE CONCRETE CLASS 120 TO EN 1916/ BS 5911-1: 2002.
12. THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED AN INCREMENT TO ACCOMMODATE THE CONNECTIONS AND BENDS.
13. YORKSHIRE WATER POLICY IS NOT TO ACCEPT TYPE 'C' BRICK MANHOLES AND 1050mm DIAM. MANHOLE RINGS. INSTEAD IT IS PREFERRED THAT YOU USE A TYPE 'B' MANHOLE WITH 1200mm DIAM. OR 1500mm DIAM. RINGS, WITH THE OPENING SIGHTED OVER THE CHANNEL WHERE DEPTH OF COVER TO PIPE SOFFIT IS 1-1.5m.
14. ALL HIGHWAY WORKS AND MATERIAL TO CONFORM WITH KIRKLEES COUNCIL DESIGN GUIDANCE AND SPECIFICATION.
15. GULLY COVER AND FRAMES SHALL BE D400 DUCTILE IRON AND COMPLY WITH EUROPEAN STANDARD BS EN 124. THOSE SIGHTED IN ACCESSWAYS AND MEWS COURTS MUST BE SUITABLE FOR USE IN PEDESTRIAN AREAS
16. BEDDING AND BACKFILL MATERIAL TO CONFORM TO THE REQUIREMENT OF WATER INDUSTRY SPECIFICATION 4-08-2 (TABLE A2).
17. PLASTIC CHANNEL SECTIONS IN MANHOLES ARE NOT ACCEPTABLE AND YORKSHIRE WATER WOULD PREFER CLAYWARE CHANNELS IN MANHOLES. YORKSHIRE WATER HAVE FOUND THAT PLASTIC CHANNELS ARE DIFFICULT TO SET IN CONCRETE AS THEY FLOAT AND A SATISFACTORY FINISH CANNOT BE OBTAINED ON BENCHING.
18. 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.
19. THERE SHOULD BE ENOUGH CLEARANCE TO ACCOMMODATE THE BEDDING FOR BOTH PIPES, APPROX 300mm : IF CROSSOVER IS NEAR THE ROCKER THEN THE CLEARANCE NEEDED MAY BE INCREASED.

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Diams		Manhole	Cover
S1	181.155 1.505		1	gully	179.725	150	1200	B D400 600x600
			0	1.000	179.650	225		
			0	1.000	179.175	225		
S2	181.649 2.474		1	1.000	179.300	225	1200	B D400 600x600
			2	2.000	179.175	225		
			0	1.001	179.175	225		
S3	182.713 3.714		1	1.001	179.074	225	1200	A D400 600x600
			0	1.002	178.999	300		
			0	1.002	178.999	300		
S4	183.614 4.624		1	1.002	178.865	300	1500	A D400 600x600
			2	gully	182.000	150		
			0	1.003	178.790	375		
S5	180.961 4.461		1	1.003	178.456	375	1500	A D400 600x600
			2	1st lateral	176.725	150		
			0	1.004	176.500	375		
S6	181.501 5.344		1	1.004	176.232	375	1500	A D400 600x600
			2	1st lateral	179.150	150		
			0	1.005	176.157	450		

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Diams		Manhole	Cover
S7	182.020 6.191		1	1.005	175.825	450	1800	A D400 600x600
			2	1st lateral	179.300	150		
			3	gully	179.300	150		
S8	181.342 5.581		1	1.006	175.825	450	1800	A D400 600x600
			2	gully	175.761	150		
			0	1.007	175.761	450		
S9 Hydrobrake	181.250 8.300		1	1.007	175.728	450	2100	A D400 1220x675
			2	1st lateral	173.025	150		
			0	1.008	172.950	225		
S10	178.000 5.087		1	1.008	172.913	225	1200	A D400 600x600
			0	existing	172.838	300		
			0	existing	172.838	300		
S11	180.967 1.667		1	gully	179.375	150	1200	B D400 600x600
			0	2.000	179.300	225		
			0	2.000	179.300	225		
S12	182.755 4.032		1	1.003	178.723	375	1500	A D400 600x600
			1	1st lateral	180.850	150		
			0	1.003	178.723	375		

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Diams		Manhole	Cover
F1	182.675 4.325		1	1st lateral	180.300	150	1200	A D400 600x600
			0	1.000	178.350	150		
			0	1.000	177.753	150		
F2	180.915 4.865		1	1.000	177.753	150	1200	A D400 600x600
			2	1st lateral	177.753	150		
			0	1.001	176.050	150		
F3	181.461 5.682		1	1.001	175.779	150	1200	A D400 600x600
			2	1st lateral	178.750	150		
			0	1.002	175.779	150		
F4	181.923 6.463		1	1.002	175.460	150	1800	A D400 600x600
			2	1st lateral	179.000	150		
			0	1.003	175.460	150		
F5	181.190 8.650		1	1.003	175.378	150	1800	A D400 600x600
			2	1st lateral	172.500	150		
			0	1.004	172.500	150		
F6	177.567 5.487		1	1.004	172.100	150	1200	A D400 600x600
			0	1.005	172.100	150		
			0	1.005	172.100	150		

Manhole Number	Cover Level	Connections	Pipe			Manhole Size	Types	
			Code	Inverts	Diams		Manhole	Cover
F7	171.443 4.593		1	1.005	169.650	150	1200	A D400 600x600
			0	1.006	166.850	150		
			0	1.006	164.350	150		
F8	165.667 1.317		1	existing	164.350	150	1200	C D400 600x600
			2	existing	164.350	150		
			1	existing	164.350	150		



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Client
SB HOMES

Project
LINGARD ROAD, SLAITHWAITE

Detail
MANHOLE SCHEDULE

Dwn Chkd Date Scale Dwg No.
HH AUG-23 NTS@A1 E19/7567/007