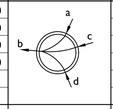
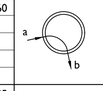
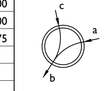
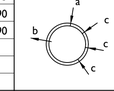
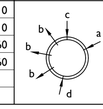
SURFACE WATER MANHOLES

MH Ref.	MANHOLE DETAILS								COVER DETAILS		PIPE DETAILS					MANHOLE LAYOUT	COMMENTS / DETAILS
	Internal Size	Type			Levels		Depth (m)		BS EN 124 Cover Ref.	Cover Size Clear Opening	Type of Pipe	Size In	Size Out	Invert Level			
		Brick	Conc	PPIC	Cover	Invert											
SMH 1.0	1200Ø		*		102.850	101.350	1.500		D400	600x600	uPVC	150a		101.500			
	TYPE 2										uPVC		300b	101.350			
											uPVC	150c		101.500			
											uPVC	100d		101.550			
SMH 1.1	1200Ø		*		103.200	101.240	1.960		D400	600x600	uPVC	300a		101.240			
	TYPE 2										uPVC		300b	101.240			
											uPVC	150c		101.390			
SMH 1.2	1200Ø		*		103.300	100.970	2.330		D400	600x600	uPVC	300a		100.970			
	TYPE 2										uPVC		300b	100.970			
SMH 1.3	1200Ø		*		103.700	100.875	2.825		D400	600x600	uPVC	300a		100.875			
	TYPE 2										uPVC		300b	100.875			
SMH 1.4	1200Ø		*		103.600	100.790	2.810		D400	600x600	uPVC	300a		100.790			
	TYPE 2										uPVC		300b	100.790			
											uPVC	225c		100.865			
SCP 1.5	1500Ø		*		103.500	99.700	3.800		D400	1220x675	uPVC	300a		100.200			TYPE 2 - FC, TYPE 2 MANHOLE
	TYPE 2 - FC					(base)					uPVC		300b	100.200			WITH FLOW CONTROL DEVICE
											uPVC	225c		100.200			LIMITED TO 5l/s @ 2.7m HEAD
																	CATCHPIT WITH 500mm SUMP
SMH 1.6	1200Ø		*		103.430	100.130	3.300		D400	600x600	uPVC	225a		100.130			b EXISTING DRAIN
	TYPE 2										Existing		225b	100.130			
SMH 2.0	475Ø			*	102.850	102.200	0.650		B125	475Ø	uPVC	150a		102.275			LD, LIGHT WEIGHT PPIC DETAIL
	LD										uPVC		150b	102.275			
											uPVC	150c		102.200			
SMH 2.1	600Ø			*	102.850	101.100	1.750		C250	600x600	uPVC	150a		101.175			TEG, TEGRA 600 MANHOLE
	TEG										uPVC		225b	101.100			
SMH 3.0	475Ø			*	102.850	102.200	0.650		B125	475Ø	uPVC	150a		102.275			LD, LIGHT WEIGHT PPIC DETAIL
	LD										uPVC		150b	102.200			

SURFACE WATER MANHOLES

MH Ref.	MANHOLE DETAILS								COVER DETAILS		PIPE DETAILS					MANHOLE LAYOUT	COMMENTS / DETAILS
	Internal Size	Type			Levels		Depth (m)		BS EN 124 Cover Ref.	Cover Size Clear Opening	Type of Pipe	Size In	Size Out	Invert Level			
		Brick	Conc	PPIC	Cover	Invert											
SMH 3.1	600Ø			*	102.850	101.860	0.990		B125	600x600	uPVC	150a		101.860			TEG, TEGRA 600 MANHOLE
	TEG										uPVC		225b	101.860			
SMH 3.2	600Ø			*	102.850	101.305	1.545		C250	600x600	uPVC	225a		101.305			TEG, TEGRA 600 MANHOLE
	TEG										uPVC		225b	101.305			
SMH 3.3	600Ø			*	102.850	101.100	1.750		C250	600x600	uPVC	225a		101.100			TEG, TEGRA 600 MANHOLE
	TEG										uPVC		225b	101.100			
											uPVC	150c		101.175			
SCP 3.4	1500Ø		*		103.150	99.990	3.160		D400	600x600	uPVC	225a		100.365			CATCHPIT WITH 300mm SUMP
	TYPE 2 - CP					(base)					uPVC		300b	100.290			
											uPVC	300c		100.290			
SMH 4.0	475Ø			*	102.850	102.200	0.650		B125	475Ø	uPVC	150a		102.275			LD, LIGHT WEIGHT PPIC DETAIL
	LD										uPVC		150b	102.200			
											uPVC	150c		102.275			
SMH 5.0	1200Ø		*		102.850	100.600	2.250		D400	600x600	uPVC		300a	100.600			
	TYPE 2																
SCP 5.1	1500Ø		*		102.500	100.010	2.490		D400	600x600	uPVC	300a		100.310			CATCHPIT WITH 300mm SUMP
	TYPE 2 - CP					(base)					uPVC		300b	100.310			
											uPVC	150c		100.460			
											uPVC	150d		100.460			

NOTES

1. ALL LEVELS AS SHOWN ARE AS PER TOPOGRAPHICAL SURVEY.

2. CONSTRUCTION AND TESTING OF DRAINS AND SEWERS TO COMPLY WITH BS EN 1610. CONTRACTOR SHALL NOTE THAT TOLERANCES OF + OR - 5% OF THE PIPES INTERNAL DIAMETER MUST BE ACHIEVED UPTO A MAXIMUM OF 20mm

3. FOR MANHOLE CONSTRUCTION INFORMATION REFER TO STANDARD DETAILS DRAWINGS.

4. PRECAST MANHOLES SHALL COMPLY WITH BS EN 1917

5. POLYPROPYLENE CHAMBERS TO COMPLY WITH BS 7158.

6. BRICKWORK CHAMBERS WILL TO BE CONSTRUCTED FROM CLASS B ENGINEERING BRICKS COMPLYING WITH BS 3921. BRICKS SHALL ALSO BE FROST-RESISTANT CATEGORY F.

7. CLAY PIPES TO COMPLY TO BS EN 295

8. CONCRETE PIPES TO COMPLY TO BS EN 1916

9. TYPE OF PIPE "PERF" REFERS TO PERFORATED FILTER DRAINS TO COMPLY TO BS 4962.

10. PLASTIC PIPE ALTERNATIVES
IN NON-AGGRESSIVE SOIL CONDITIONS PLASTIC PIPE ALTERNATIVES WILL BE DEEMED ACCEPTABLE. IF THE CONTRACTOR INTENDS TO USE PLASTIC PIPEWORK IN ACCORDANCE WITH BS 4660 - THE FOLLOWING STANDARDS WILL BE REQUIRED:

DRAINAGE CONNECTIONS OF LESS THAN 150Ø SHALL BE SOLID WALL uPVC PIPES COMPLYING WITH BS EN 1401-1

PIPE SIZES 150-900Ø (TO BE USED IN FOUL OR COMBINED FLOW DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPE COMPLYING WITH WIS 4-35-01

PIPE SIZES 150-900Ø (TO BE USED IN SURFACE WATER DRAINAGE SYSTEMS) SHALL BE THERMOPLASTIC STRUCTURED WALL PIPES WITH BBA & HAPAS ACCREDITATION.

THE CONTRACTOR SHALL SUBMIT DETAILS OF THE PROPOSED PLASTIC PRODUCTS FOR APPROVAL BY THE ENGINEER.

11. THE CONTRACTOR SHALL ALSO NOTE THAT CONNECTIONS TO PUBLIC SEWERS & MATERIALS USED IS SUBJECT TO AGREEMENT WITH THE ADOPTING AUTHORITY AND THE CONTRACTOR SHALL THEREFORE ASSUME THAT TRADITIONAL MATERIALS MUST BE USED UNLESS EXPRESSIVELY INFORMED OTHERWISE.

12. MOULDED PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 75mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES. WHERE PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

13. MOULDED MINI PPIC BASES HAVE A CAST IN SLOPE OF 20mm ACROSS THE MAIN CHANNEL AND A STEP OF 35mm FROM THE MAIN CHANNEL TO INCOMING BRANCHES. WHERE MINI PPIC MANHOLES ARE SHOWN, LEVELS HAVE BEEN CALCULATED TO REFLECT THE SLOPE / STEP AS NECESSARY.

REV	DESCRIPTION	BY	CHK	APR	DATE
P02	LEVELS AMENDED	JR	RH	MM	14.06.2023

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PURPOSE OF ISSUE: FOR TENDER	STATUS: D2
PROJECT: CLITHEROE CARE HOME	
TITLE: DRAINAGE SCHEME SW MANHOLE SCHEDULE	
CLIENT: ERIC WRIGHT CONSTRUCTION LTD	
DRAWN BY: JR	CHECKED BY: RH	APPROVED BY: MM
DATE: 16.05.2023	SCALE (@ A1): NTS	PROJECT NUMBER: 113001
DRAWING NUMBER: 220018-JPS-ZZ-ZZ-DR-C-00505	REV: P02	