

NOTES

1. Driveway and car park surfacing design and construction to Engineer's Specification (by others).
2. All dimensions are in millimetres unless otherwise stated.
3. Pre-cast concrete products shall comply with the relevant provisions of BS 5911 and BS 5912.
4. Manhole covers and frames, grids and frames shall comply with the relevant provisions of BS EN 124. D400 class manhole cover to be used within trafficked areas. A15 class manhole cover to be used in untrafficked areas.
5. Do not scale from this drawing. If in doubt ask.

Proposed Discharge rate of 4.5l/s based on Qbar rate for 555mm². Occupier should undertake inspection of sump manholes upstream of crate tank and clear when required.

KEY:

Rooted and Paved Areas draining to crate tank 3675m²

Rooted areas to sealed downpipes

SW PPIC Manhole 450mm dia

SW PPIC Manhole with 300mm deep sump

SW Concrete Manhole with 300mm deep sump and control of 4.5l/s

FW PPIC Manhole

Combined PPIC Manhole

Proposed Grate Tank 645m² by 0.4m deep with minimum 0.6m cover. 100%+CC30% total volume of 32.17m³ during duration of 1440 minutes. -

Existing Public Combined Sewer

Proposed Surface Water & Trill Water sewers to discharge to existing combined sewer within Knowle Lane via new combined sewer to be constructed within access road.

REV	DESCRIPTION	DATE
0	For Approval	19/03/20

EWE Associates Ltd

EWE Associates Limited
7 Waverley Close
Baton Upon Stather
Scotthorpe
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Tel: 07875 972270

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Knowle Lane Meltham

Towndoor

Drainage Details

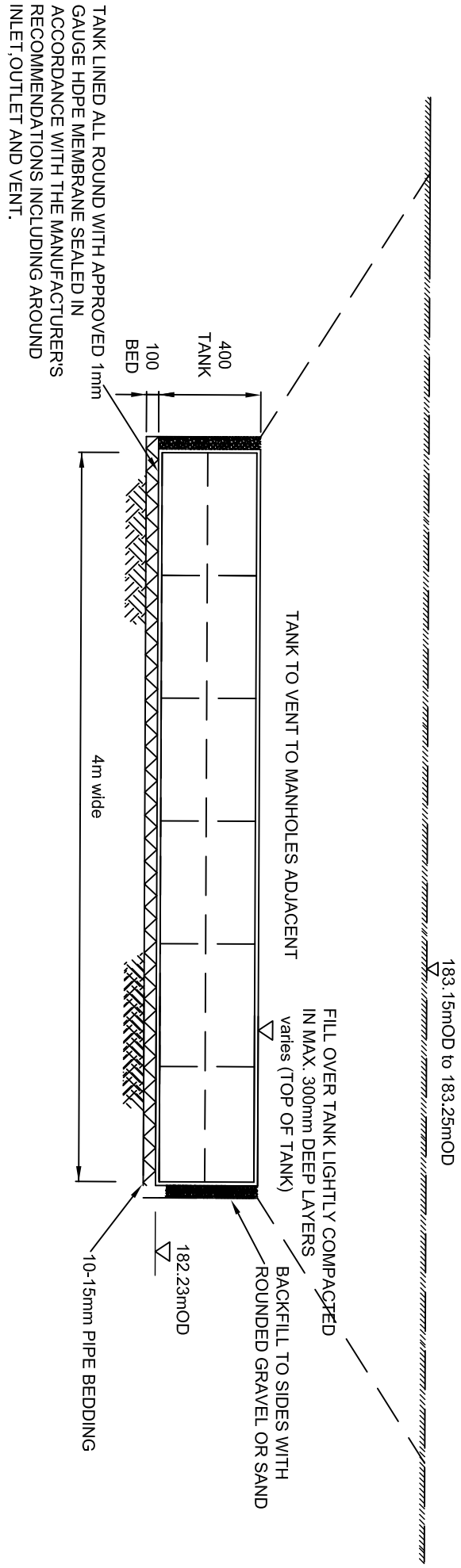
SCALE	DATE	
1:400	19/03/20	
DRAWN BY	CHECKED BY	REVISION
JF	JF	0

DRAWING No
EWE/2418/03

Manhole Ref:	Pipe Outlet Size	PipeMaterial	Cover level	Invert Level	Depth	Depth to soffit	Chamber Type	Chamber Size	Cover Type	Cover Size	Comments
CW1	150	poly/ppe	183.700	181.500	2.200	2.050	TWIN WALL	600	D400	600	
CW2	150	poly/ppe	180.600	179.200	1.400	1.250	TWIN WALL	600	D400	600	
CW3	150	poly/ppe	179.500	178.300	1.200	1.050	TWIN WALL	600	D400	600	

Manhole Ref:	Pipe Outlet Size	PipeMaterial	Cover level	Invert Level	Depth	Depth to soffit	Chamber Type	Chamber Size	Cover Type	Cover Size	Comments
SW1	150	poly/ppe	183.850	183.250	0.600	0.450	PPIC	450	A15	450	300mm Sump
SW2	150	poly/ppe	183.450	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW3	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW4	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW5	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW6	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW7	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW8	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW9	100	poly/ppe	183.900	182.960	0.940	0.840	PPIC	450	A15	450	
SW10	150	poly/ppe	183.900	182.760	1.140	0.990	PPIC	450	A15	450	
SW11	150	poly/ppe	183.850	182.650	1.200	1.050	PPIC	450	D400	450	
SW12	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW13	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW14	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW15	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW16	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW17	150	poly/ppe	183.150	182.230	0.920	0.770	PPIC	450	D400	450	300mm Sump
SW18	150	poly/ppe	184.100	183.100	1.000	0.850	PPIC	450	A15	450	
SW19	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW20	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW21	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW22	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	
SW23	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW24	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW25	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW26	100	poly/ppe	184.100	183.410	0.690	0.590	PPIC	450	A15	450	
SW27	150	poly/ppe	184.100	183.210	0.990	0.740	PPIC	450	A15	450	
SW28	150	poly/ppe	184.100	183.100	1.000	0.850	PPIC	450	A15	450	
SW29	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW30	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW31	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW32	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW33	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	300mm Sump
SW34	100	poly/ppe	183.650	182.230	1.200	0.900	PPIC	450	A15	450	
SW35	100	poly/ppe	183.650	182.650	1.000	0.900	PPIC	450	A15	450	
SW36	150	poly/ppe	183.650	182.560	1.090	0.940	PPIC	450	A15	450	
SW37	150	poly/ppe	183.250	182.230	1.020	0.870	PPIC	450	D400	450	300mm Sump
SW38	150	poly/ppe	183.650	182.850	0.600	0.600	PPIC	450	D400	450	300mm Sump
SW39	150	poly/ppe	183.500	182.500	1.000	0.850	PPIC	450	D400	450	
SW40	150	poly/ppe	183.430	182.230	1.200	1.050	PPIC	450	D400	450	
SW41	150	poly/ppe	183.300	182.230	1.100	0.950	CONC	1200	D400	600	4.5l/s hydrobrake
SW42	150	poly/ppe	183.800	182.000	1.800	1.650	CONC	1200	D400	600	

Manhole Ref:	Pipe Outlet Size	PipeMaterial	Cover level	Invert Level	Depth	Depth to soffit	Chamber Type	Chamber Size	Cover Type	Cover Size	Comments
FW1	100	poly/ppe	183.900	183.300	0.600	0.500	PPIC	450	A15	450	
FW2	100	poly/ppe	183.900	183.250	0.650	0.550	PPIC	450	A15	450	
FW3	100	poly/ppe	183.900	183.200	0.700	0.600	PPIC	450	A15	450	
FW4	100	poly/ppe	184.000	182.760	1.240	1.140	PPIC	450	A15	450	
FW5	100	poly/ppe	184.100	182.460	1.640	1.540	TWIN WALL	600	A15	600	
FW6	100	poly/ppe	184.100	182.420	1.680	1.580	TWIN WALL	600	A15	600	
FW7	100	poly/ppe	184.100	182.340	1.760	1.660	TWIN WALL	600	A15	600	
FW8	100	poly/ppe	184.100	182.270	1.830	1.730	TWIN WALL	600	A15	600	
FW9	100	poly/ppe	184.100	182.230	1.870	1.770	TWIN WALL	600	A15	600	
FW10	100	poly/ppe	184.000	181.910	2.090	1.990	TWIN WALL	600	D400	600	
FW11	100	poly/ppe	183.650	182.350	1.300	1.200	PPIC	450	A15	450	
FW12	100	poly/ppe	183.750	181.630	2.120	2.020	TWIN WALL	600	D400	600	



CRATE TANK - CROSS-SECTION (1:50)

Discharge of condition drawing