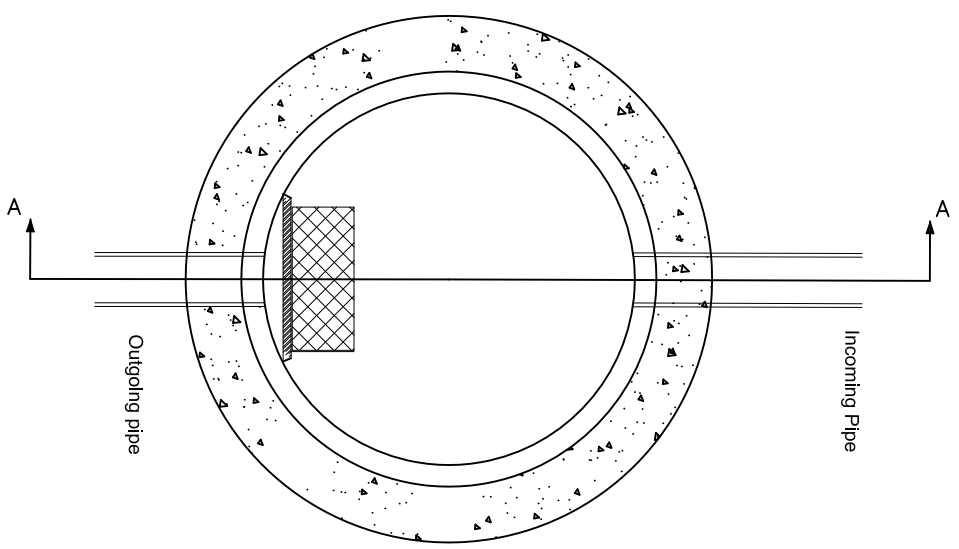
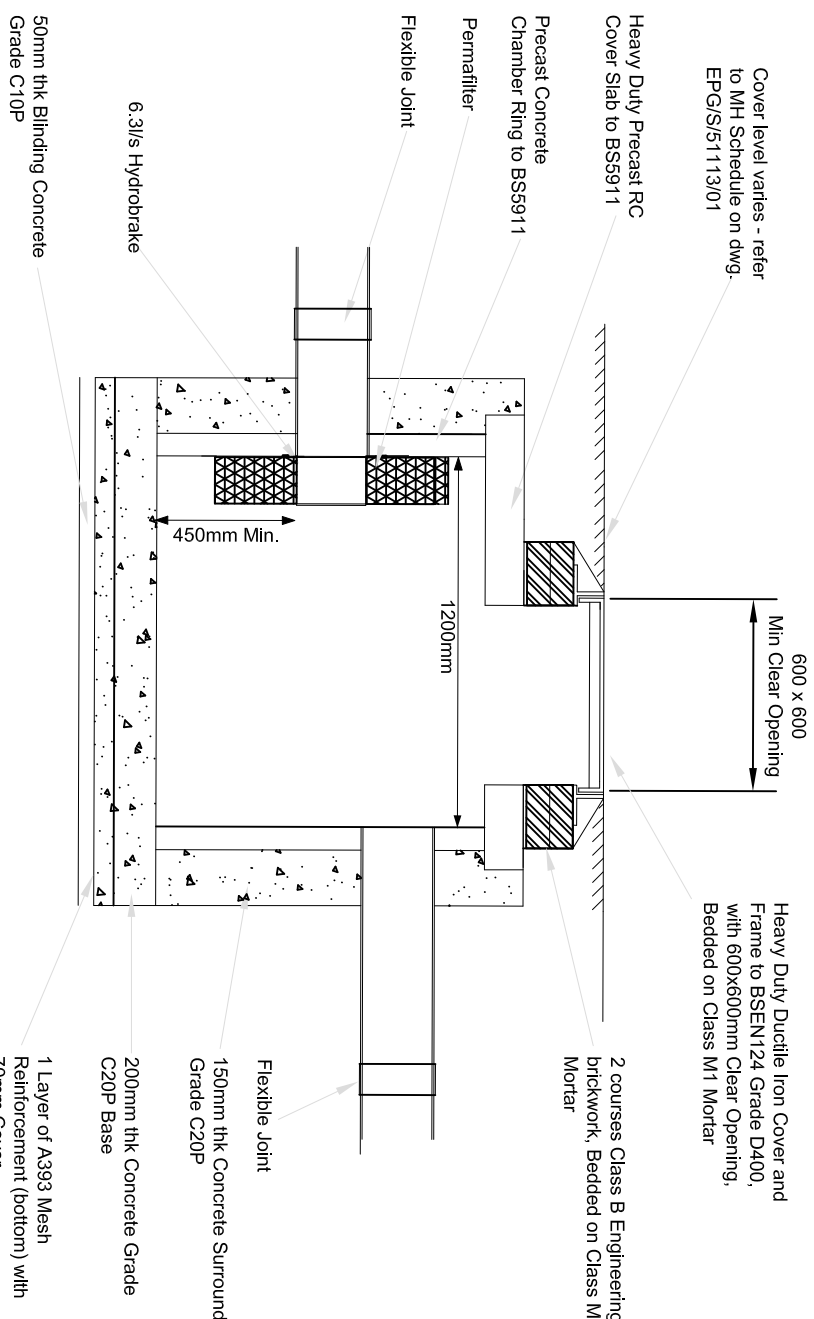




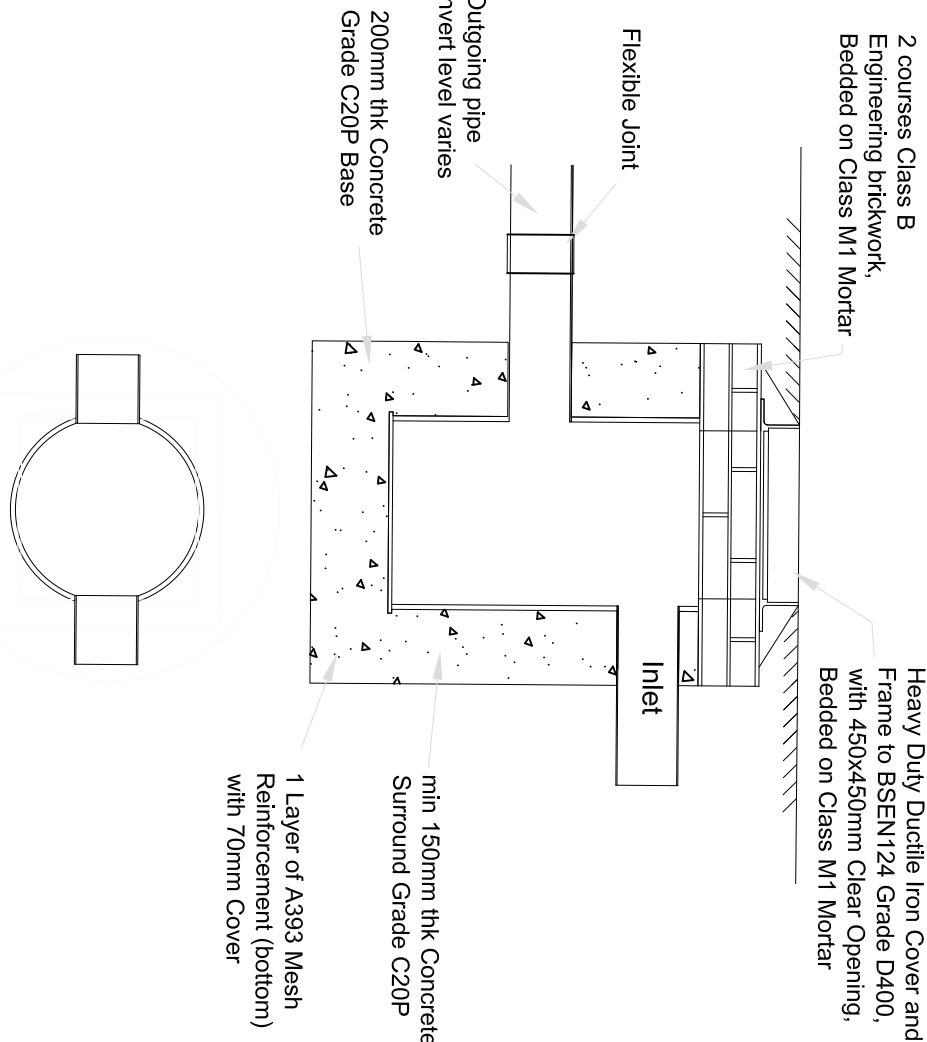
TYPICAL 1200mm FLOW CONTROL CATCHPIT MANHOLE



TYPICAL 1200mm FLOW CONTROL CATCHPIT

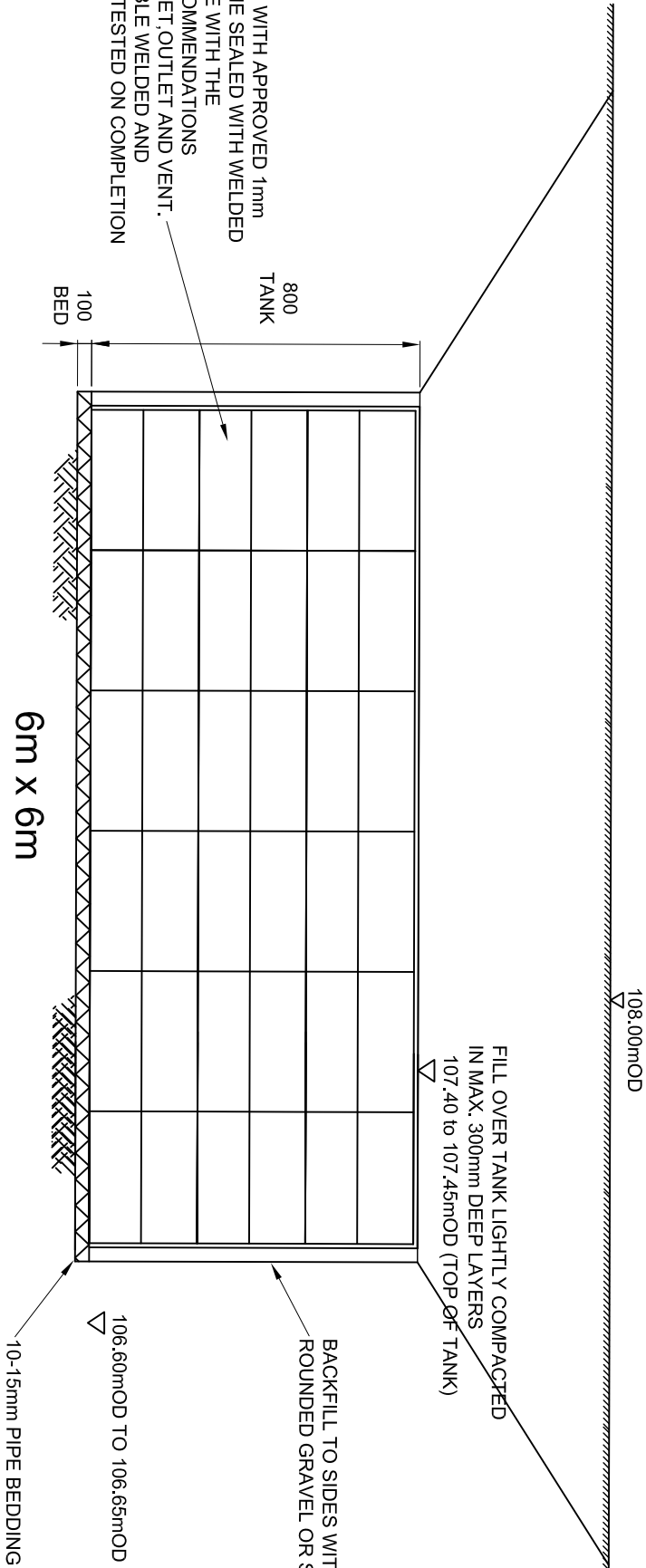
MANHOLE (SW10)

SECTION A-A SCALE 1:25

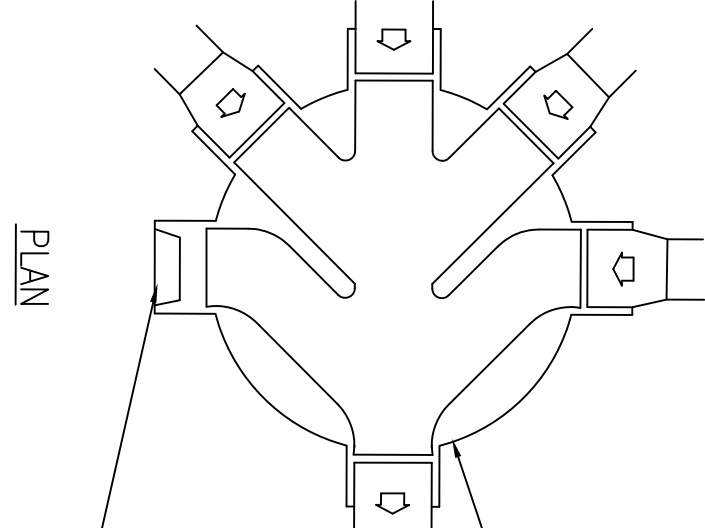
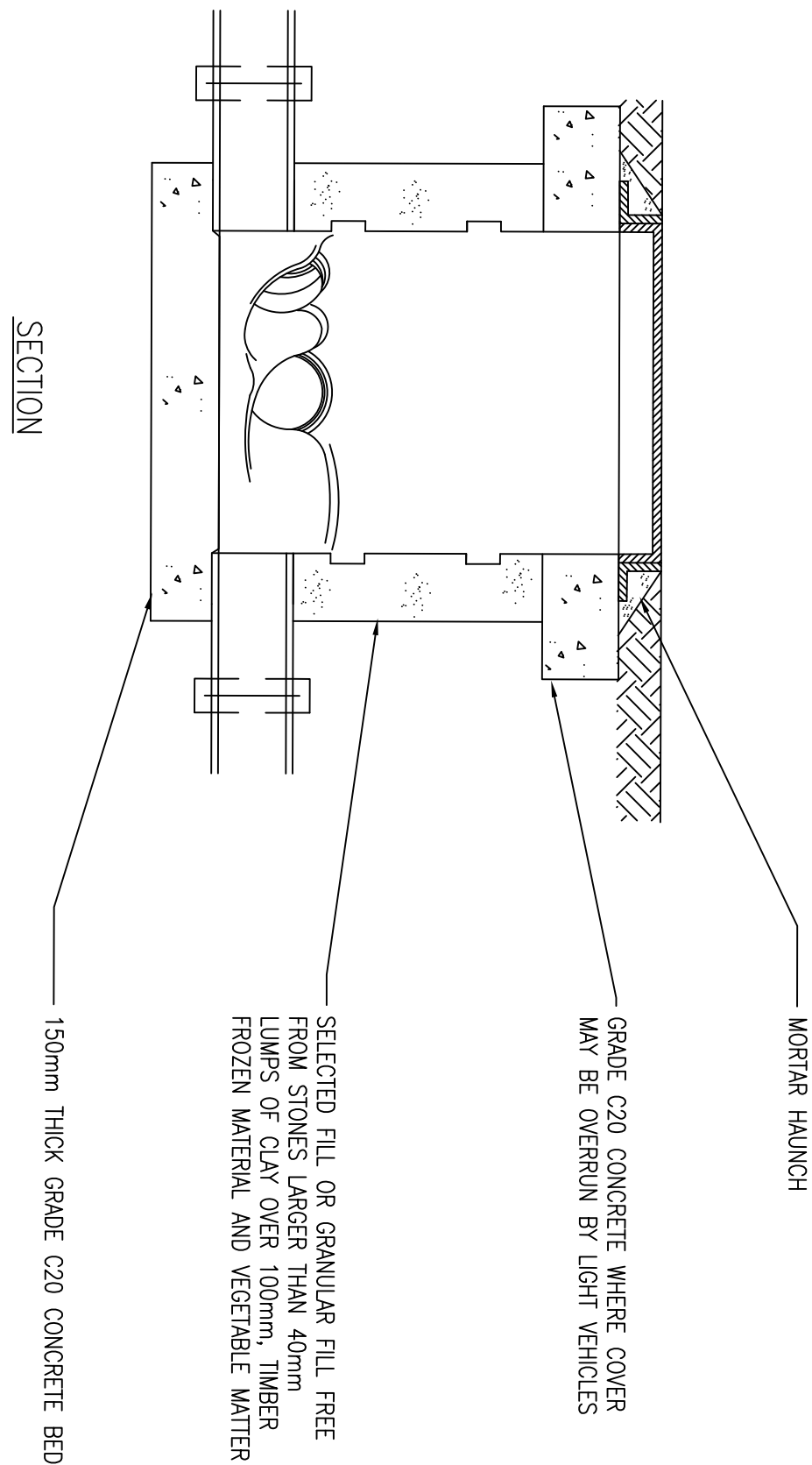


TYPICAL 600mmø CATCHPIT INSPECTION CHAMER
(MAXIMUM DEPTH 1200MM)

SCALE 1:20



CRATE TANK - CROSS-SECTION (1:50)



TYPICAL POLYPROPYLENE INSPECTION CHAMBER.
(UP TO 1.2m DEEP)

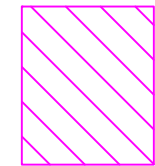
Manhole Ref.	Pipe Outlet Size	Pipe/Material	Cover Level	Invert Level	Depth	Depth to soffit	Chamber Type	Chamber Size	Cover Type	Cover Size	Comments	Comments
SW1	150	poly/ppe	108.200	107.000	1.200	1.150	PPIC	450	A15	450		
SW2	150	poly/ppe	108.200	107.160	1.040	0.880	PPIC	450	D400	450		
SW3	150	poly/ppe	108.210	107.120	1.090	0.940	PPIC	450	D400	450		
SW4	150	poly/ppe	108.230	107.040	1.190	1.040	PPIC	450	D400	450		
SW5	150	poly/ppe	108.250	107.000	1.250	1.100	PPIC	450	D400	450		
SW6	150	poly/ppe	108.240	107.000	1.240	1.090	PPIC	450	D400	450		
SW7	225	poly/ppe	108.000	106.700	1.300	1.075	PPIC	600	D400	600		
SW8	225	poly/ppe	108.000	106.650	1.350	1.125	PPIC	600	D400	600	300mm Sump	
SW9	150	poly/ppe	108.120	106.630	1.490	1.340	PPIC	600	D400	600	300mm Sump	Limited Access
SW10	150	poly/ppe	108.000	106.600	1.400	1.250	CONC	1200	D400	600	Hydrobrake 6.3l/s	300mm Sump

Manhole Ref.	Pipe Outlet Size	Pipe/Material	Cover Level	Invert Level	Depth	Depth to soffit	Chamber Type	Chamber Size	Cover Type	Cover Size	Comments	Comments
FW1	100	poly/ppe	108.200	107.000	1.200	1.200	PPIC	450	D400	450		

Manhole Ref.	Pipe Outlet Size	Pipe/Material	Cover Level	Invert Level	Depth	Depth to soffit	Chamber Type	Chamber Size	Cover Type	Cover Size	Comments	Comments
CM1	150	poly/ppe	108.000	106.550	1.450	1.300	PPIC	600	D400	600	Limited Access	
CM2	150	poly/ppe	107.800	106.440	1.360	1.210	PPIC	600	D400	600	Limited Access	Existing outgassing

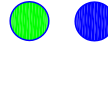
- NOTES**
1. Driveway and car park surfacing design and construction to Engineer's Specification. (by others).
 2. All dimensions are in millimetres unless otherwise stated.
 3. All materials and workmanship shall comply with the relevant provisions of BS 5911 and the 'Kils Marked'.
 4. Manhole covers and frames, girths 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.
- Discharge restricted to 6.3litre based on existing 1 year runoff rate of 9.0litre minus 30% for climate change. Site to discharge to Yorkshire Water combined sewer, 100%+CC30% storage volume of 30.1m3 estimated. Storage to be provided within crate tank 36m2 by 0.6m deep located within site.
- Occulder should undertake inspection of control manhole SW10 and catchpit manholes SW6 & SW9 on a 2 monthly basis and clean when necessary.

KEY:

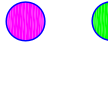


Rooted & Paved Areas
Total impermeable roofed and paved area of 930m2

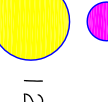
Rooted areas to scaled downpans



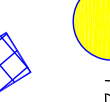
SW PPIC Manhole 450mm dia



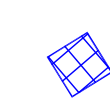
SW PPIC Manhole 600mm dia with 300mm deep sump



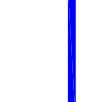
SW Vent Manhole to tank



1200mm dia SW control manhole with 6.3l/s hydrobrake



Attenuation Tank 36m2 by 0.6m deep to provide storage up to 100%+CC30% storm



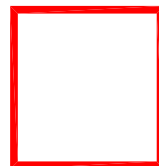
ACCO Drain



FW PPIC Manhole 450mm dia



Combined PPIC Manhole 450mm dia



Site Boundary 950m2

REV	DESCRIPTION	DATE
0	For Approval	08/11/19

EWE Associates Ltd

EWE Associates Limited
71 Wyke Road
Burton Upon Stather
Scunthorpe
DN15 9DT
Tel: 07875 972270

Email: lea.fawell@eweassociates.com

PROJECT

Proposed Service
Station, Bradley Road,
Huddersfield

CLIENT

Pennine Service Station

DRAWING TITLE

Drainage Details

SCALE	DATE
1:100	24/10/19

DRAWN BY	CHECKED BY	REVISION
JF	JF	0

DRAWING No	
EWE/2497/02	

PLANNING CONDITION DISCHARGE DRAWING ONLY