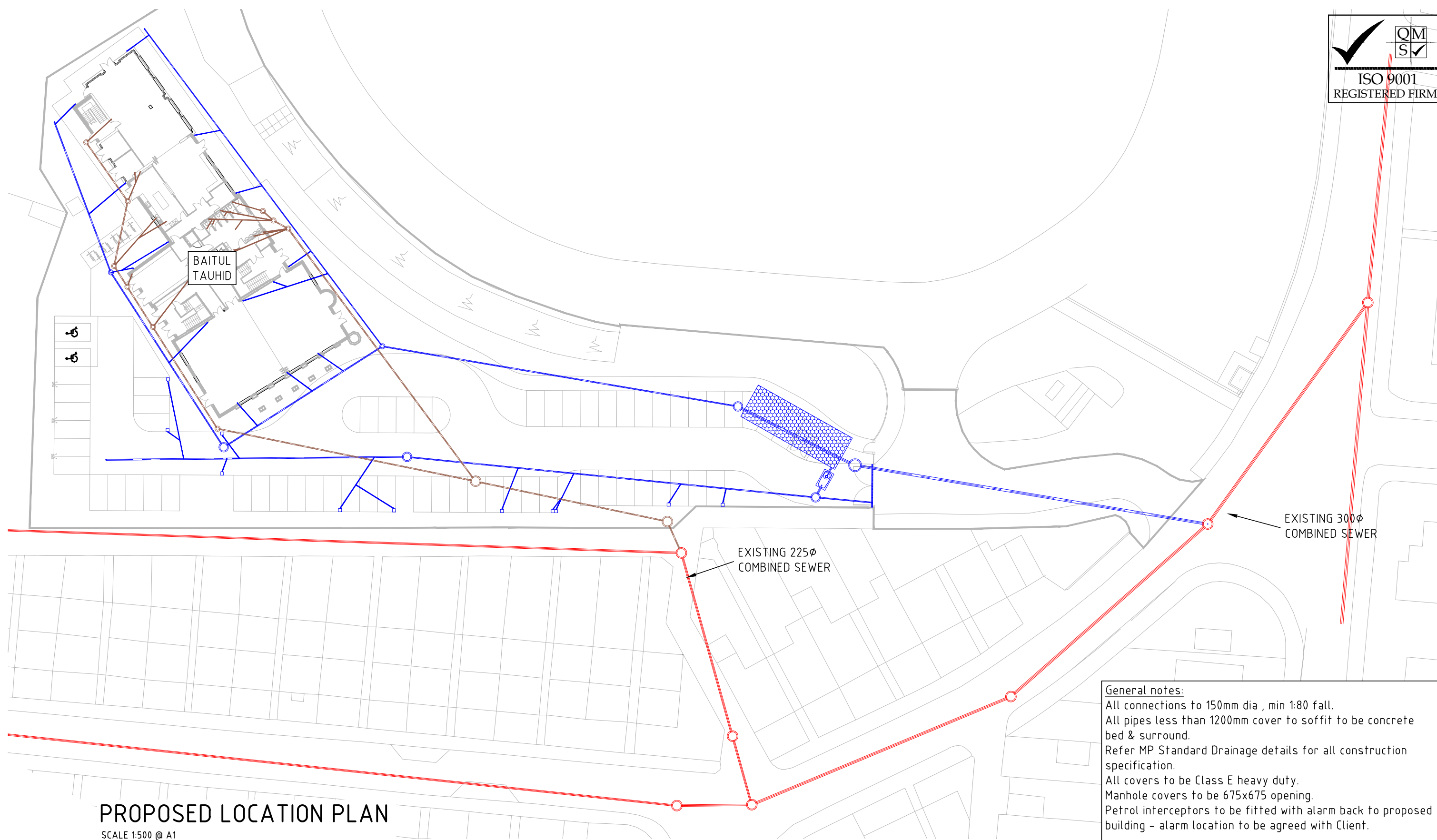


Manhole Name	Cover Level (m)	MH Depth (m)	Manhole Connection	Manhole Diam., L*W (mm)	Manhole type	Cover grade	Pipe Out PN	Pipe Out Invert Level (m)	Pipe Out Diameter (mm)	Pipes In PN	Pipes In Invert Level (m)	Pipes In Diameter (mm)	Pipes In Backdrop (mm)
F1	99.700	2.100	Open Manhole	450	PPIC	C250	F1.000	97.600	150	F1.000	97.470	150	
F2	99.700	2.230	Open Manhole	450	PPIC	C250	F1.001	97.470	150	F1.001	97.352	150	
F3	99.700	2.348	Open Manhole	450	PPIC	C250	F1.002	97.352	150	F1.001	97.307	150	
F4	99.700	2.393	Open Manhole	450	PPIC	C250	F1.003	97.307	150	F1.002	97.220	150	
F5	99.700	2.480	Open Manhole	450	PPIC	C250	F1.004	97.220	150	F1.003	97.007	150	
F6	99.700	2.693	Open Manhole	450	PPIC	C250	F1.005	97.007	150	F1.004	97.007	150	
F7	99.700	2.100	Open Manhole	450	PPIC	C250	F2.000	97.600	150				
F8	99.700	2.126	Open Manhole	450	PPIC	C250	F2.001	97.574	150	F2.000	97.574	150	
F9	99.700	2.156	Open Manhole	450	PPIC	C250	F2.002	97.544	150	F2.001	97.544	150	
F10	98.360	2.100	Open Manhole	1050	B	D400	F1.006	96.260	150	F1.005	96.260	150	
										F2.002	96.260	150	
F11	96.900	0.912	Open Manhole	1050	E	B125	F1.007	95.988	150	F1.006	95.988	150	
F12	96.900	0.976	Open Manhole	0			OUTFALL			F1.007	95.924	150	

PROPOSED FW MANHOLE SCHEDULE

SCALE NA



PROPOSED LOCATION PLAN

SCALE 1:500 @ A1

NOTE: PPIC's TO HAVE MIN
250mm CONCRETE SURROUND

FW MANHOLES			FW PIPES		
F1 450mm CL 99.700m Depth (m) 2.100	F6 450mm CL 99.700m Depth (m) 2.693	F11 1050mm CL 96.900m Depth (m) 0.912	F1.000 10.124m 1.77.6 150mm	F1.005 36.601m 1.49.0 150mm	F2.002 4.3.700m 1.34.0 150mm
F2 450mm CL 99.700m Depth (m) 2.230	F7 450mm CL 99.700m Depth (m) 2.100	F12 CL 96.900m Depth (m) 0.976	F1.001 9.091m 1.77.6 150mm	F1.006 27.210m 1.100.0 150mm	
F3 450mm CL 99.700m Depth (m) 2.348	F8 450mm CL 99.700m Depth (m) 2.126		F1.002 3.504m 1.77.6 150mm	F1.007 4.953m 1.77.8 150mm	
F4 450mm CL 99.700m Depth (m) 2.393	F9 450mm CL 99.700m Depth (m) 2.156		F1.003 6.776m 1.77.6 150mm	F2.000 2.025m 1.77.6 150mm	
F5 450mm CL 99.700m Depth (m) 2.480	F10 1050mm CL 98.360m Depth (m) 2.100		F1.004 16.547m 1.77.6 150mm	F2.001 2.308m 1.77.6 150mm	

General notes:
All connections to 150mm dia., min 180 fall.
All pipes less than 1200mm cover to soffit to be concrete bed & surround.
Refer MP Standard Drainage details for all construction specification.
All covers to be Class E heavy duty.
Manhole covers to be 675x675 opening.
Petrol interceptors to be fitted with alarm back to proposed building - alarm location to be agreed with Client.

Storage tank notes:
Tank to be fitted with vent in accordance with manufacturers details (eg YESS Versavoid).
Tank duty to be min class D.
Tank installation to be in accordance with suppliers details.
Tank is designed for NO infiltration due to ground conditions.
Tank to be wrapped & sealed with impermeable membrane.

Existing drainage and services:
All existing drainage and services which are identified as to be abandoned are to be capped at suitable location and removed in full within the working area.
Refer Architect for full details of demolitions and services alterations.

RESIDUAL DESIGN RISKS:

- GROUND CONDITIONS - REFER SI FOR DETAILS OF STRENGTH, CONTAMINATION AND WATER TABLE FOR ALL EXCAVATION WORKS.
- REFER TOPO STATS TRACE FOR LOCATION OF ALL EXISTING SERVICES. THE MAIN CONTRACTOR IS RESPONSIBLE FOR LOCATING ON SITE AND CLEARLY MARKING AT THE SURFACE ALL EXISTING SERVICE/ DRAINAGE RUNS.
- FORMATION OF ALL DRAINAGE EXCAVATIONS TO BE PROVIDED SUITABLE FOR CONSTRUCTION
- CONTRACTOR TO AGREE PHASING PLAN AND TRAFFIC MANAGEMENT WITH THE CLIENT

NOTE
DO NOT SCALE FROM THIS DRAWING, UTILISE ONLY
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THIS DRAWING SHOULD BE READ IN CONJUNCTION WITH ALL
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External Reference Files in this Drawing:

Drainage Notes:

- All works and materials in heavily trafficked areas or highways to be in accordance with sewers for adoption, 7th. edition, 2012. All drainage within building area, non-trafficked hardstandings etc to be in accordance with Building Regulations. All drainage outside a building, to be in accordance with BS EN 752:2008 and BS EN 1610:2015.
- Manhole covers and frames to be 600 x 600 clear opening, in accordance with EN124, unless noted otherwise. Manhole covers within buildings to be double sealed and recessed to suit finish as required by architect.
- Vitrified clay pipes to be flexibly jointed and comply with the requirements of EN295. Clayware may be replaced with suitable PE products with agreement certification, subject to approval of building control / adopting authority.
- Concrete pipes to comply with the requirements of BS 5911, class M strength and to be flexibly jointed.
- Where cover to pipes is less than 1200 in roads and hardstandings or 900 elsewhere, concrete protection is to be provided as detail. NB until final surface is placed, heavy traffic is not to be allowed over pipe trenches without special provisions.
- Pipes and fittings are to be laid in accordance with manufacturers recommendations.
- Permanent trench reinstatements are to be in accordance with the HAUC specification for the reinstatement of openings in highways, June 1992.
- Surface water storage tank, min cover in accordance with manufacturers requirements to suit 4.0kN/m² imposed loading plus soil weight. Tank to be wrapped in impermeable geotextile membrane. Suitable access for maintenance to be included in the tank. Vent in accordance with suppliers details.
- Refer architect for setting out of all above ground drainage connections.
- Refer architect for design of ventilation to FW drainage run.
- All road gullies in to be heel guard in accordance with client specification.



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Foul Water Drainage GA

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PROPOSED DRAINAGE LAYOUT

SCALE 1:250 @ A1

