TREATMENT PERFORMANCE RESULTS

Bio Friendly Ltd.
Loughglynn Castlerea, Co. Roscommon, Ireland

EN 12566-3
Results corresponding to EN 12566-3 and S.R. 66

PIA-SR66-1703-1027

Bio-Friendly Treatment Unit
Moving bed reactor

Nominal organic daily load	0.28 kg/d		
Nominal hydraulic daily load	0.90 m³/d		
Material	Glass reinforced plastic		
Watertightness	Pass		
Crushing resistance (vertical load test)	Pass (also wet conditions)		
Durability	Pass		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	93.1 %	53 mg/l
	BOD_5	95.6 %	14 mg/l
	NH_4-N*	96.8 %	1.0 mg/l
	SS	95.2 %	16 mg/l
Number of desludging	Not more than once		
Electrical consumption	1.5 kWh/d		

*determined for temperatures ≥ 12°C in the bioreactor

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH
(PIA GmbH)
Hergenrather Weg 30
52074 Aachen, Germany

This document replaces neither the declaration of performance nor the CE marking.

Notified Body No.: 1739

Certified according to ISO 9001:2008

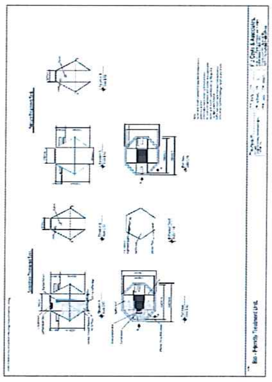
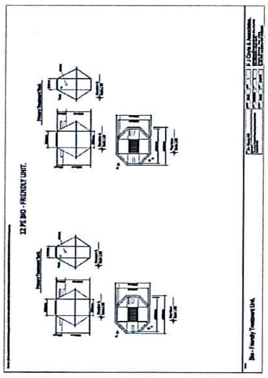
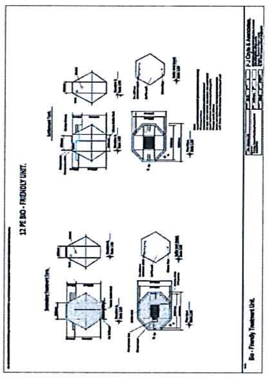
DAkkS Deutsche Akkreditierungsstelle D-PL-17712-01-00

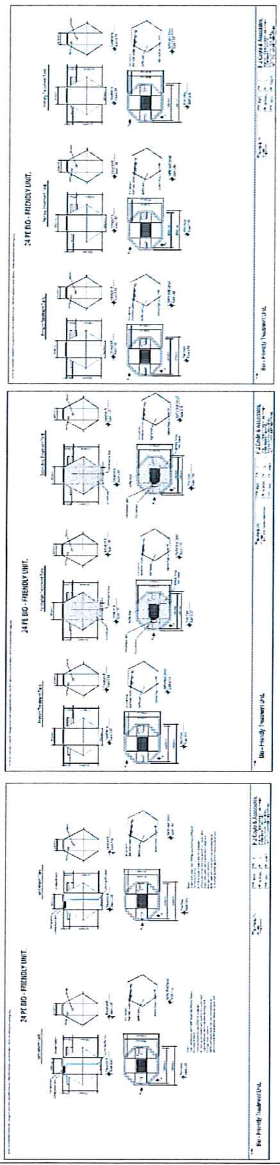
Prüfinstitut für Abwassertechnik GmbH
geprüft - tested - testé

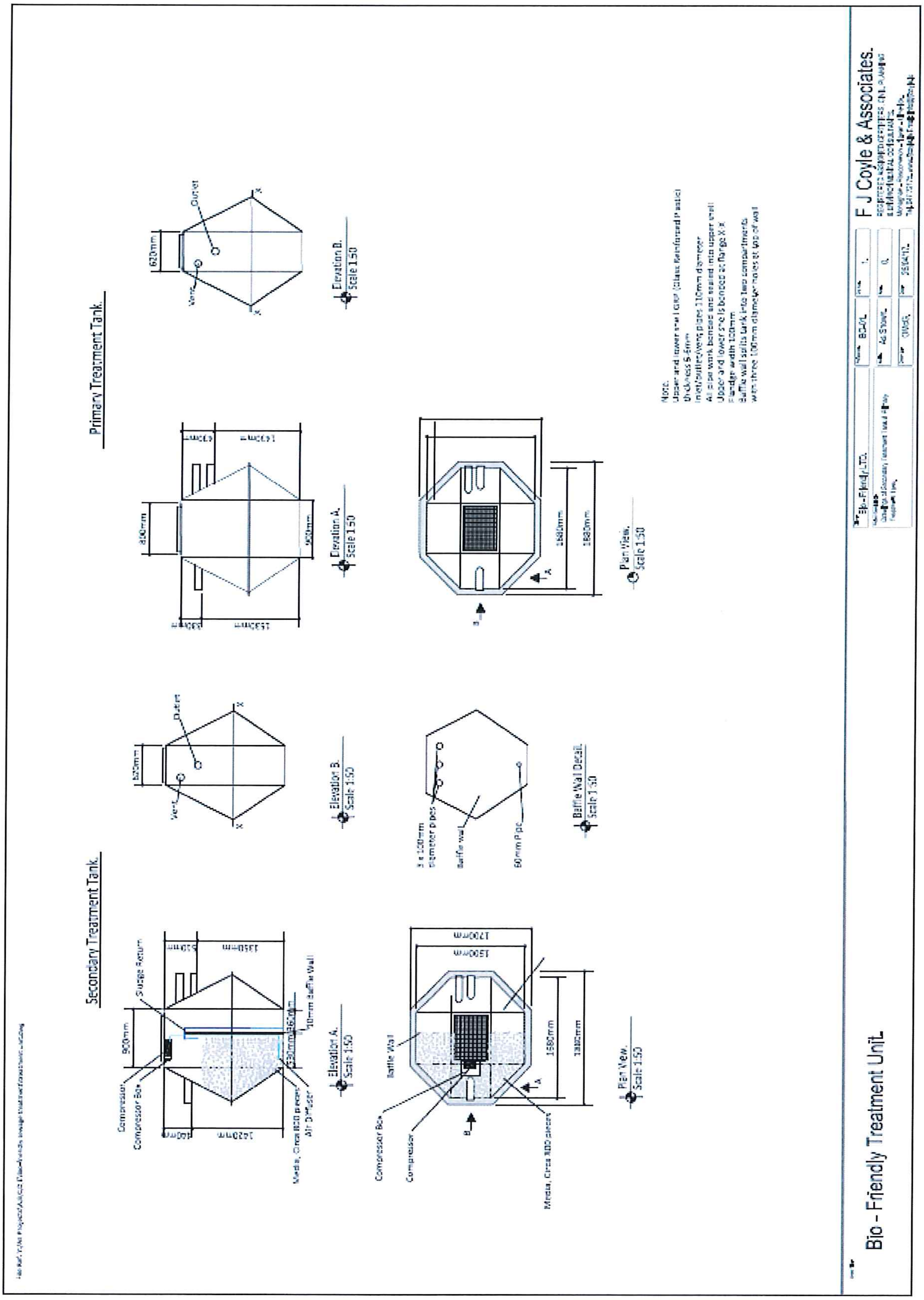
Daniel Verschitz

September 2017

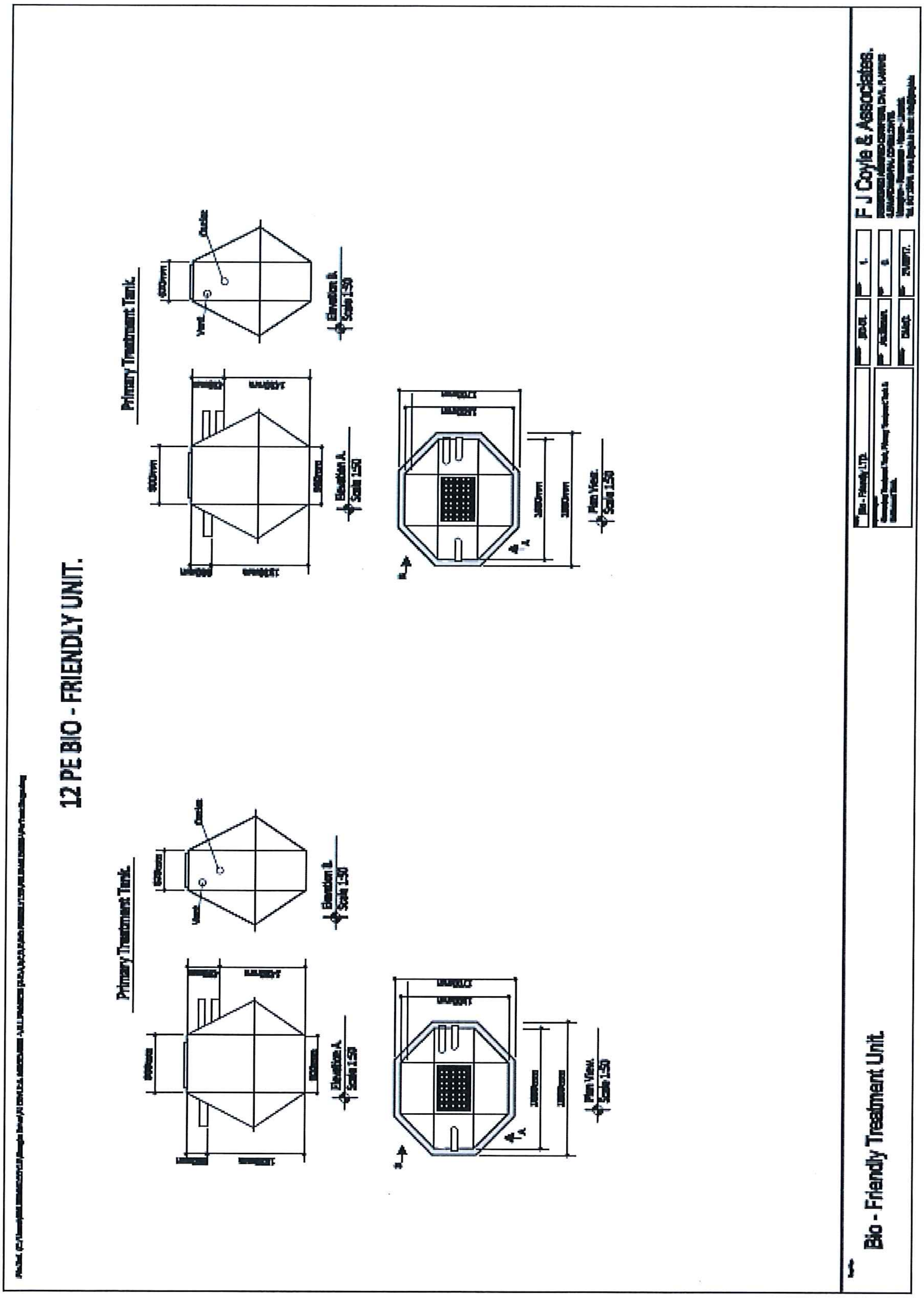
Bio-Friendly Treatment Unit range and its referring test reports:

Name of the model and/or population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
Initial Type Test (ITT) 6		Pass PIA2009-102B14	Pass PIA2017-292B06	Pass PIA2013-ST-PIT-1210-1067 For wet ground conditions also, installation depth 0.40 m from inlet invert	Pass PIA2013-DH-1210-1067.01
12	 	Pass PIA2009-102B14		Pass PIA2013-ST-PIT-1210-1067 For wet ground conditions also, installation depth 0.40 m from inlet invert	Pass PIA2013-DH-1210-1067.01

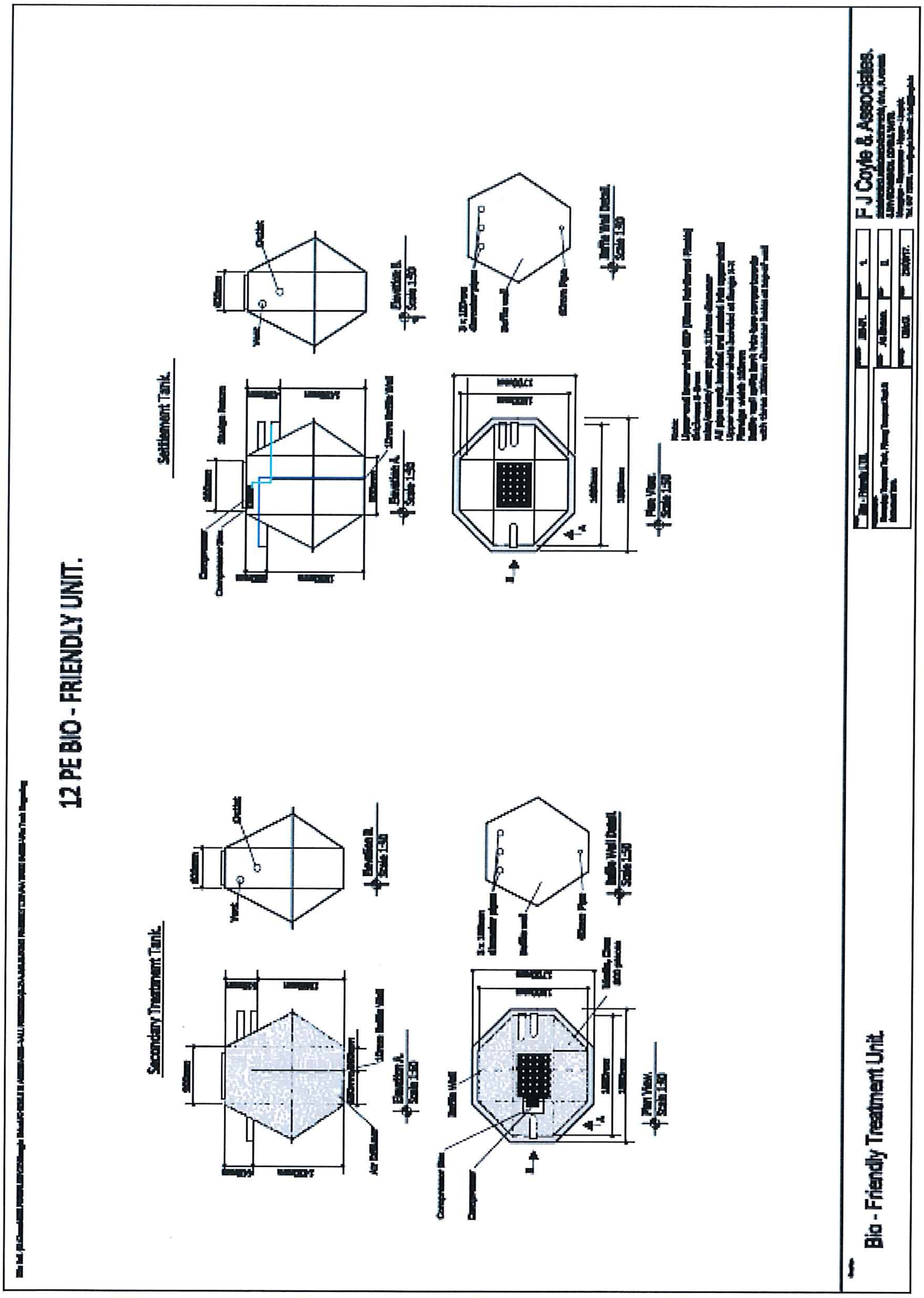
24		Pass PIA2009-102B14		Pass PIA2013-ST-PIT-1210-1067 For wet ground conditions also, installation depth 0.40 m from inlet invert	Pass PIA2013-DH-1210-1067.01


Primary Treatment Tank.
Secondary Treatment Tank.
Elevation A.
Elevation B.
Plan View.
Baffle Wall Detail.
Bio - Friendly Treatment Unit.
F J Coyle & Associates.

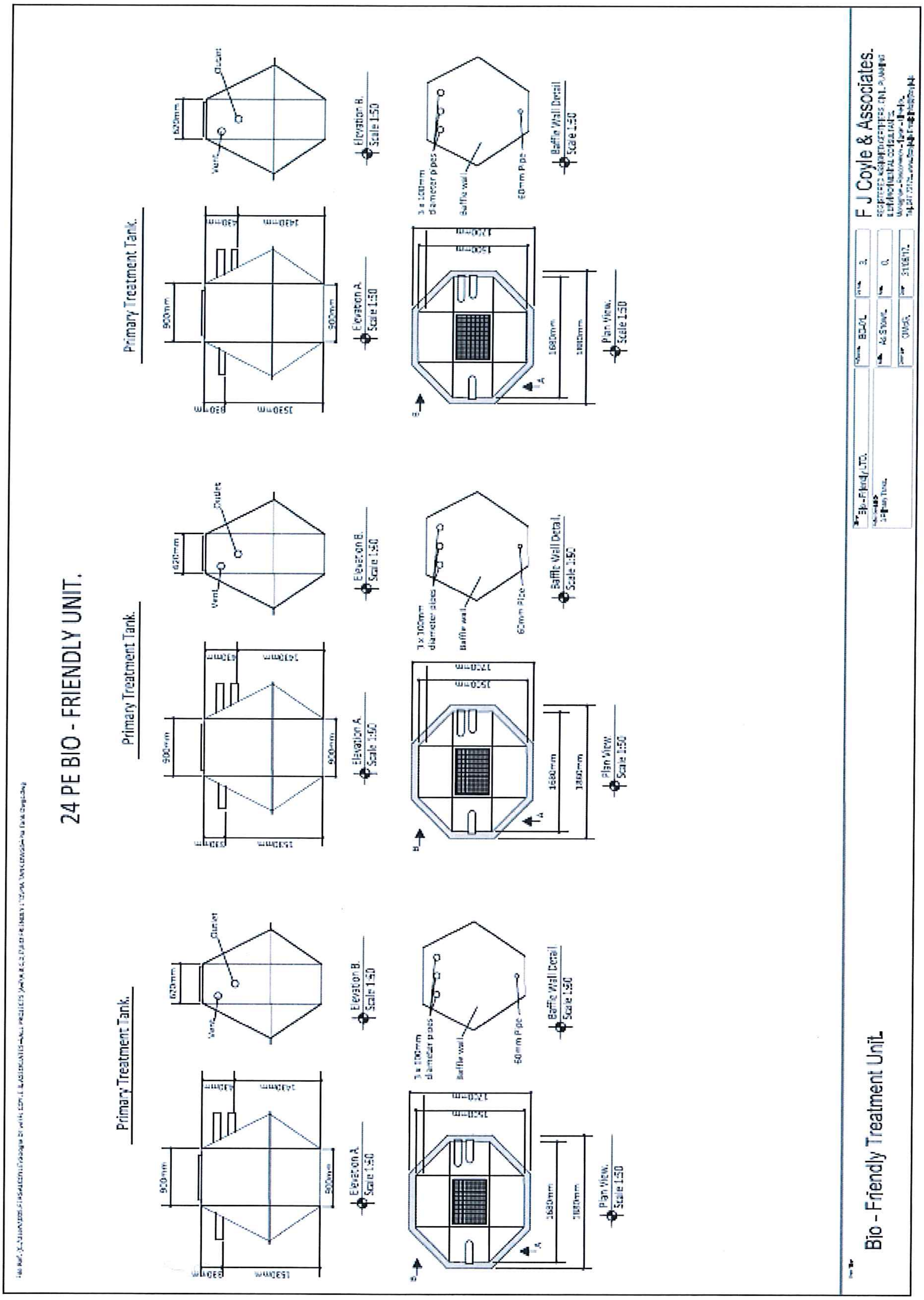
6 PE



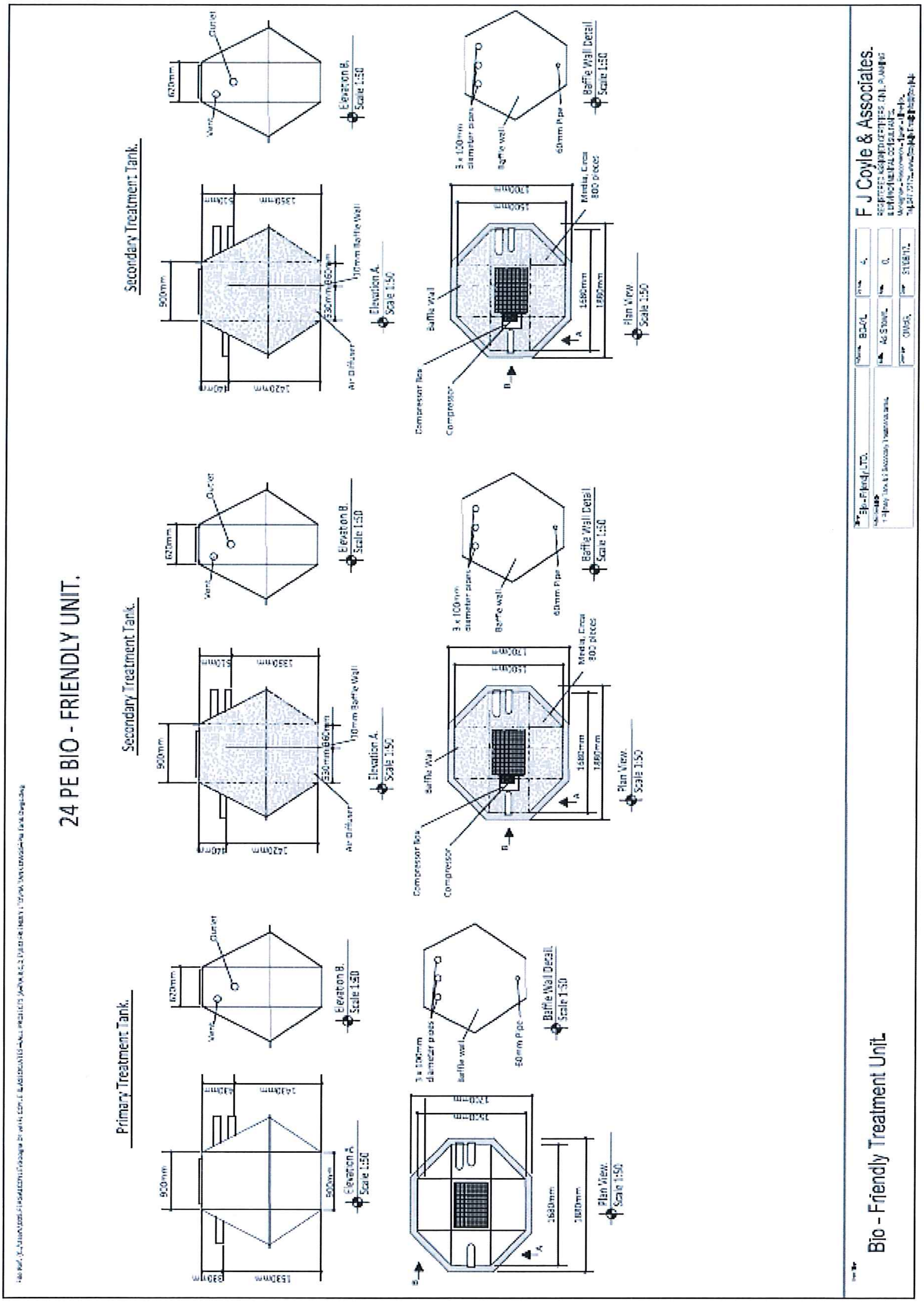
12 PE Primary



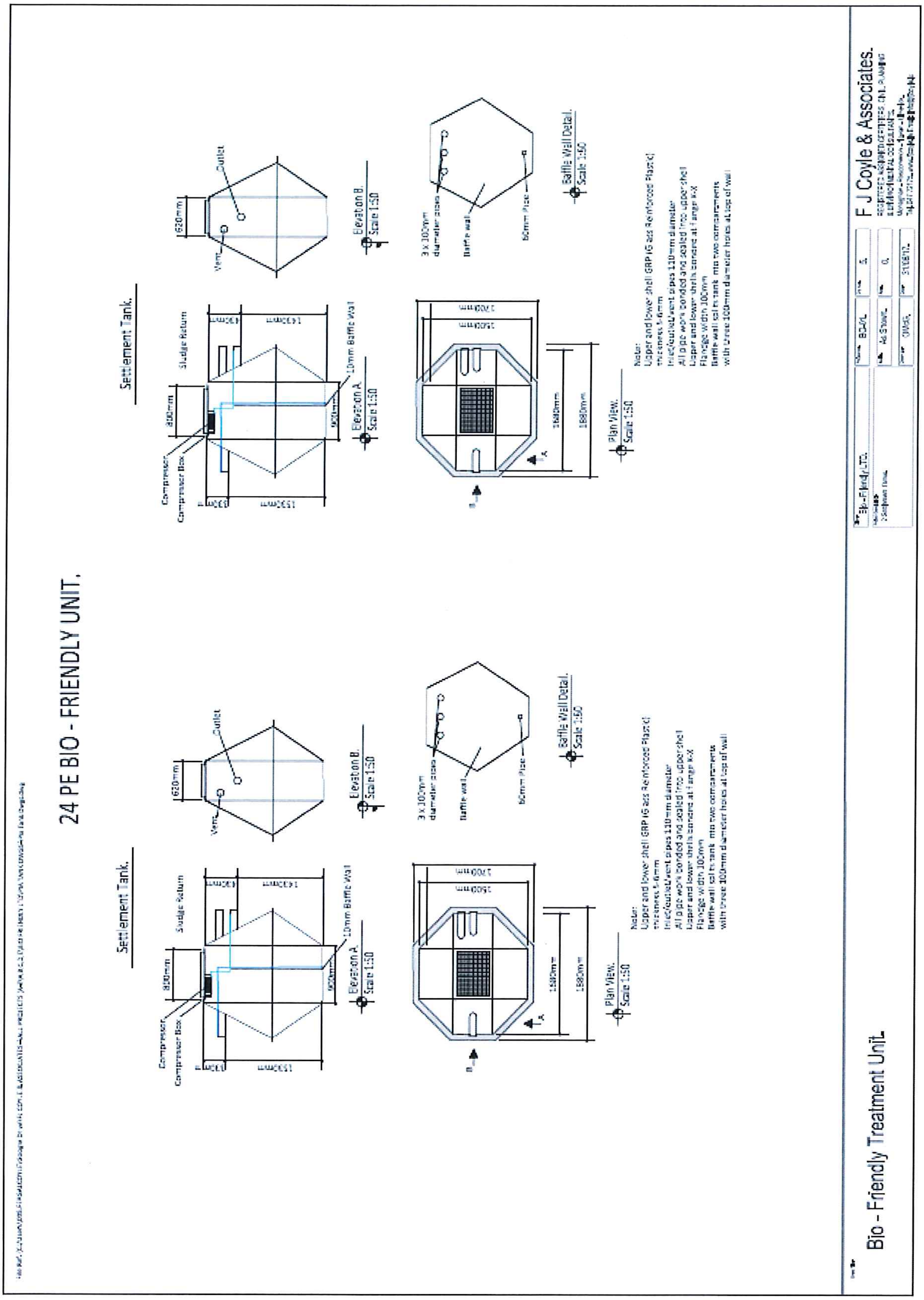
12 PE Biology and Clarifier



24 PE Primary



24 PE Primary and biology



24 PE Clarifier