



TREATMENT PERFORMANCE RESULTS

Molloy Environmental Systems

Coleraine, Clara Road, Tullamore, Co. Offaly, Ireland

EN 12566-3

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

PIA2020-SR66-1909-1055

Chieftain SBR

SBR system in concrete tanks

Nominal organic daily load	0.37 kg/d		
Nominal hydraulic daily load	1.20 m ³ /d		
Material	Concrete		
Watertightness	Pass		
Structural behaviour (Crushing resistance)	Pass (also wet conditions)		
Durability	Pass		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	94.6 %	45 mg/l
	BOD ₅	98.2 %	6 mg/l
	NH ₄ -N	98.4 %	0.7 mg/l
	SS	96.5 %	14 mg/l
Number of desludging	Not more than once		
Electrical consumption	0.85 kWh/d		

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.

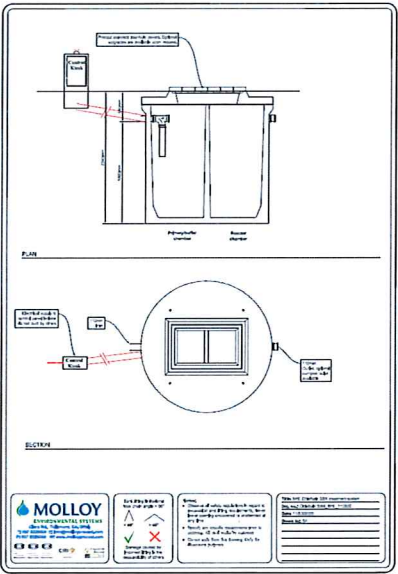
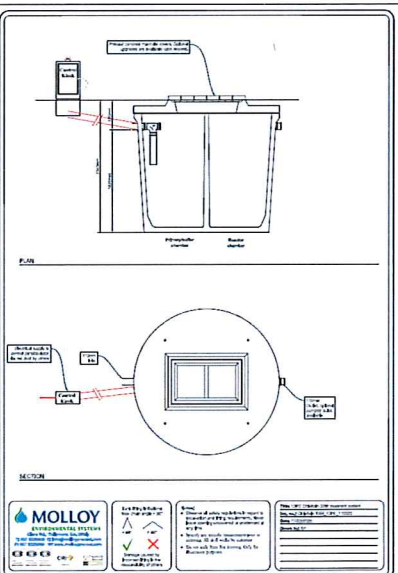
Notified Body
No.: 1739

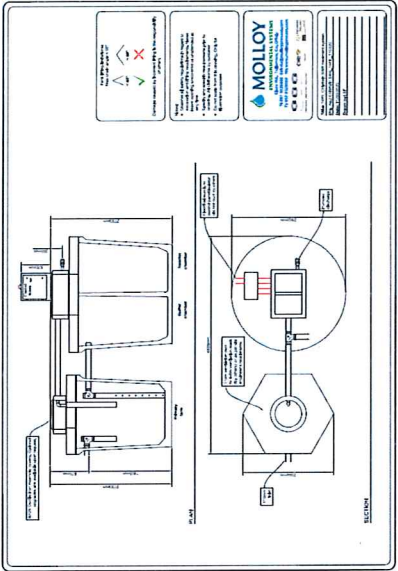
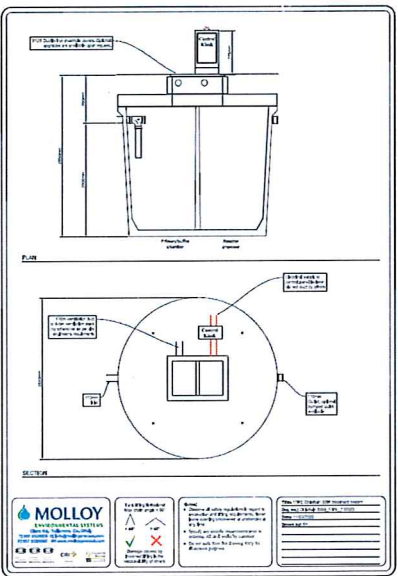
Certified according to
ISO 9001:2015

PIA - Sustainable Certification
O. Varschitz
Ch. Wermter
geprüft - tested - testé

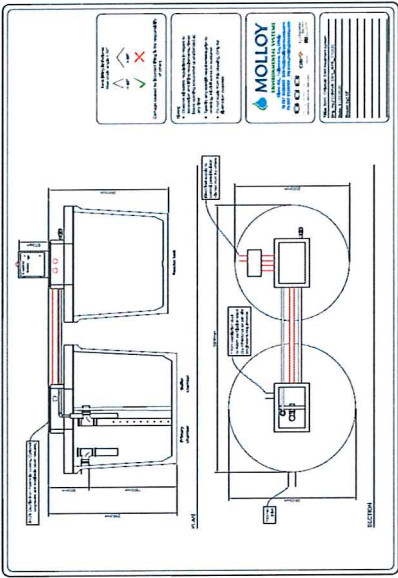
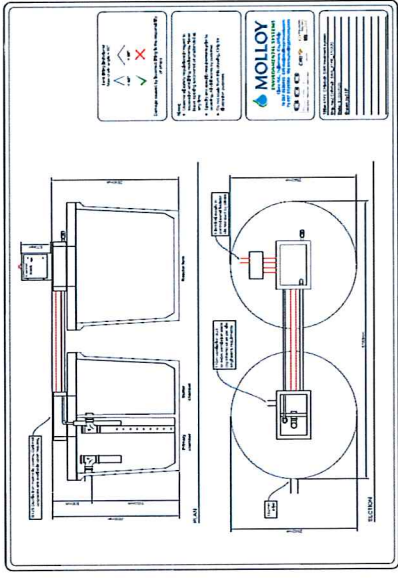
Verschitz / Wermter April 2020

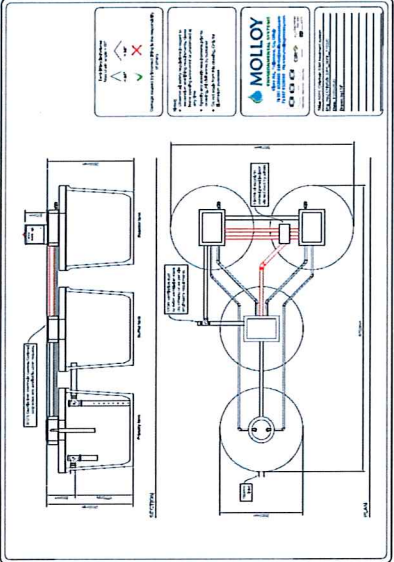
Chieftain range and its referring test reports:

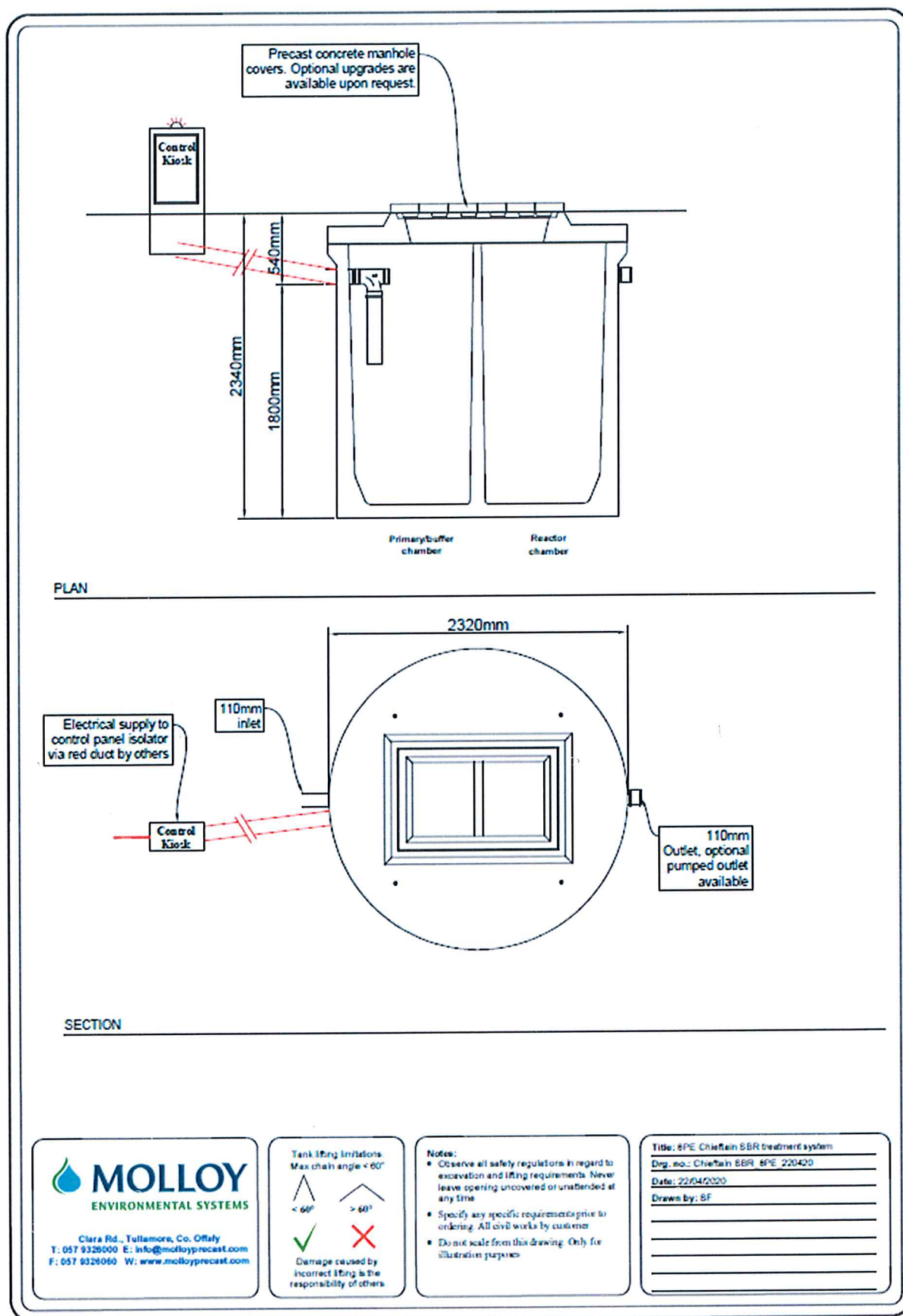
Population equivalent (PE)	Drawing of model of the range	Watertight-ness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
Initial Type Test (ITT) 8 1,200 l/d		Pass PIA2012-WD/NC-1205-1035	Pass PIA2020-367B16	Pass For wet ground conditions also, installation depth 1.10 m from inlet invert	Pass PIA2016-DH-1603-1032
12 1,800 l/d		Pass PIA2012-WD/NC-1205-1035	Pass Range conformity according to S.R. 66:2015	Pass PIA2012-ST-BT-1205-1032 For wet ground conditions also, installation depth 1.10 m from inlet invert	Pass PIA2016-DH-1603-1032

Population equivalent (PE)	Drawing of model of the range	Watertight-ness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
14 2,100 l/d		Pass PIA2019-WD-1706-1065	Pass Range conformity according to S.R. 66:2015	Pass PIA2012-ST-BT-1205-1032 PIA2019-ST-BT-1706-1065C For wet ground conditions also, installation depth 1.25 m from inlet invert	Pass PIA2016-DH-1603-1032
17 2,550 l/d		Pass PIA2019-WD-1706-1065	Pass Range conformity according to S.R. 66:2015	Pass PIA2019-ST-BT-1706-1065A For wet ground conditions also, installation depth 1.25 m from inlet invert	Pass PIA2016-DH-1603-1032

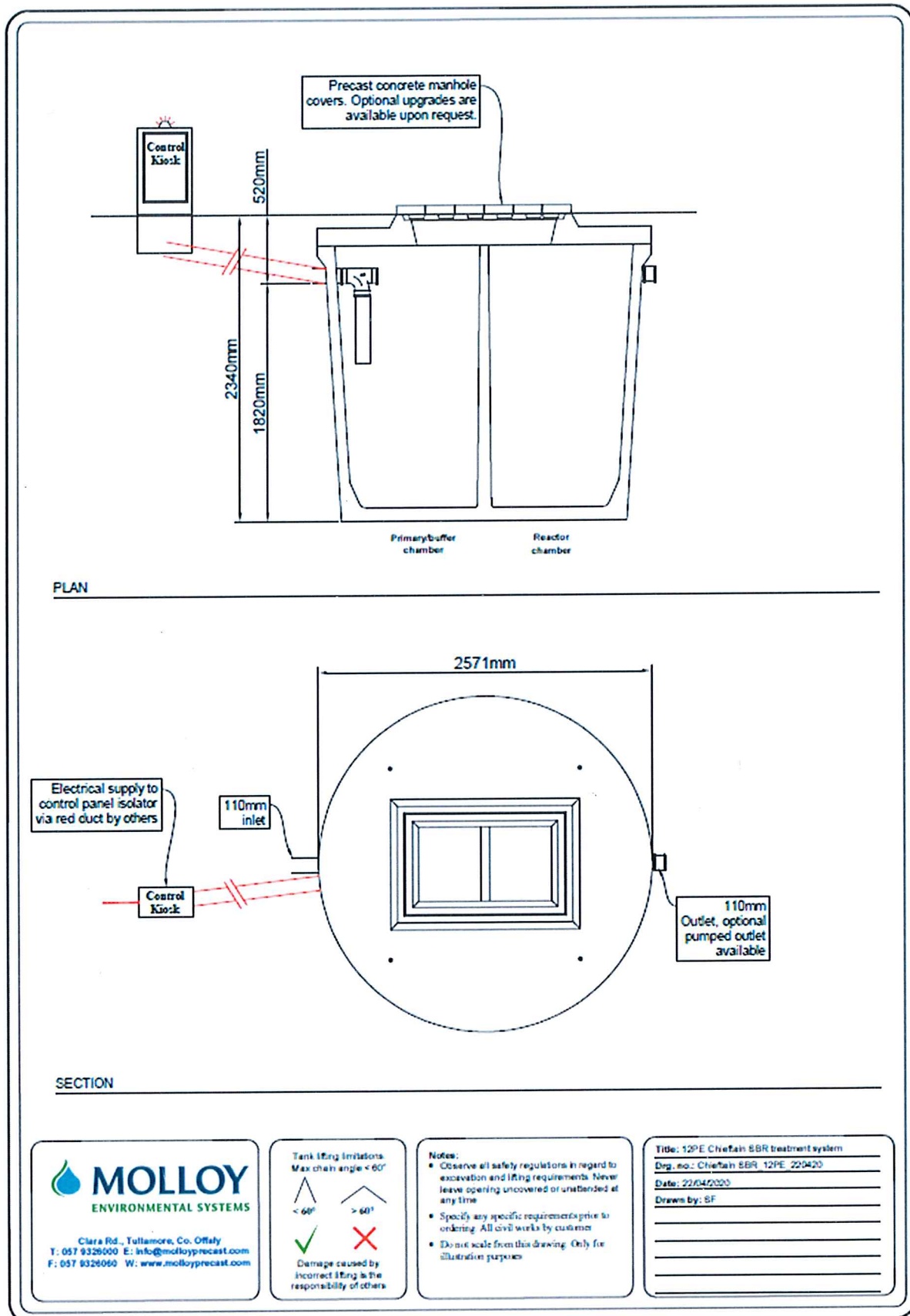
Population equivalent (PE)	Drawing of model of the range	Watertight-ness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
20 3,000 l/d		Pass PIA2019-WD-1706-1065	Pass Range conformity according to S.R. 66:2015	Pass PIA2019-ST-BT-1706-1065A/C For wet ground conditions also, installation depth 1.25 m from inlet invert	Pass PIA2016-DH-1603-1032
24 3,600 l/d		Pass PIA2019-WD-1706-1065	Pass Range conformity according to S.R. 66:2015	Pass PIA2012-ST-BT-1205-1032 For wet ground conditions also, installation depth 1.25 m from inlet invert	Pass PIA2016-DH-1603-1032

Population equivalent (PE)	Drawing of model of the range	Watertight-ness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
30 4,500 l/d		Pass PIA2019-WD-1706-1065	Pass Range conformity according to S.R. 66:2015	Pass PIA2019-ST-BT-1706-1065A PIA2012-ST-BT-1205-1032 For wet ground conditions also, installation depth 1.25 m from inlet invert	Pass PIA2016-DH-1603-1032
41 6,150 l/d		Pass PIA2019-WD-1706-1065	Range conformity according to S.R. 66:2015	Pass PIA2019-ST-BT-1706-1065A For wet ground conditions also, installation depth 1.25 m from inlet invert	Pass PIA2016-DH-1603-1032

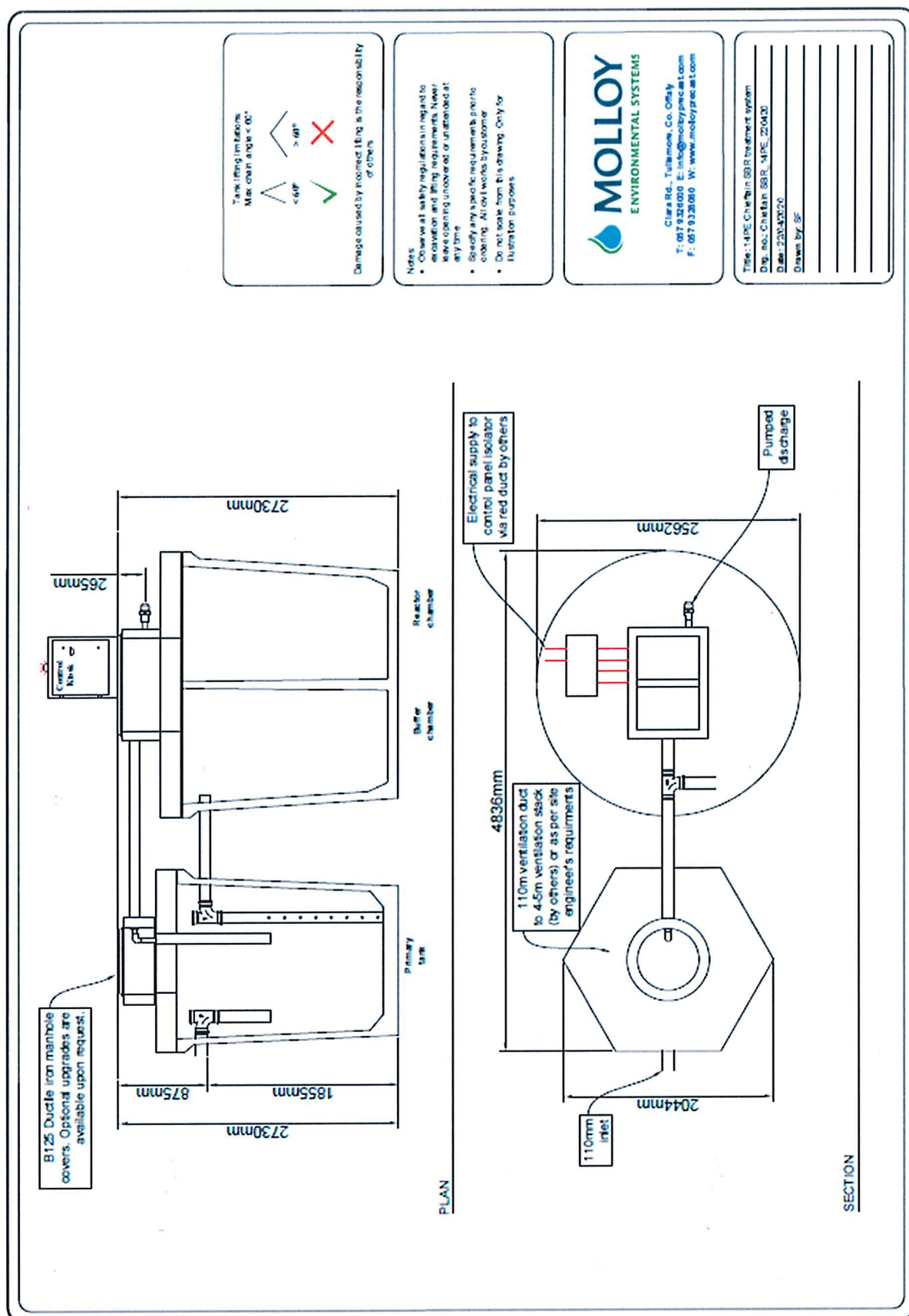
Population equivalent (PE)	Drawing of model of the range	Watertight-ness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
50 7,500 l/d		Pass PIA2019-WD-1706-1065	Range conformity according to S.R. 66:2015	Pass PIA2012-ST-BT-1205-1032 For wet ground conditions also, installation depth 1.25 m from inlet invert	Pass PIA2016-DH-1603-1032

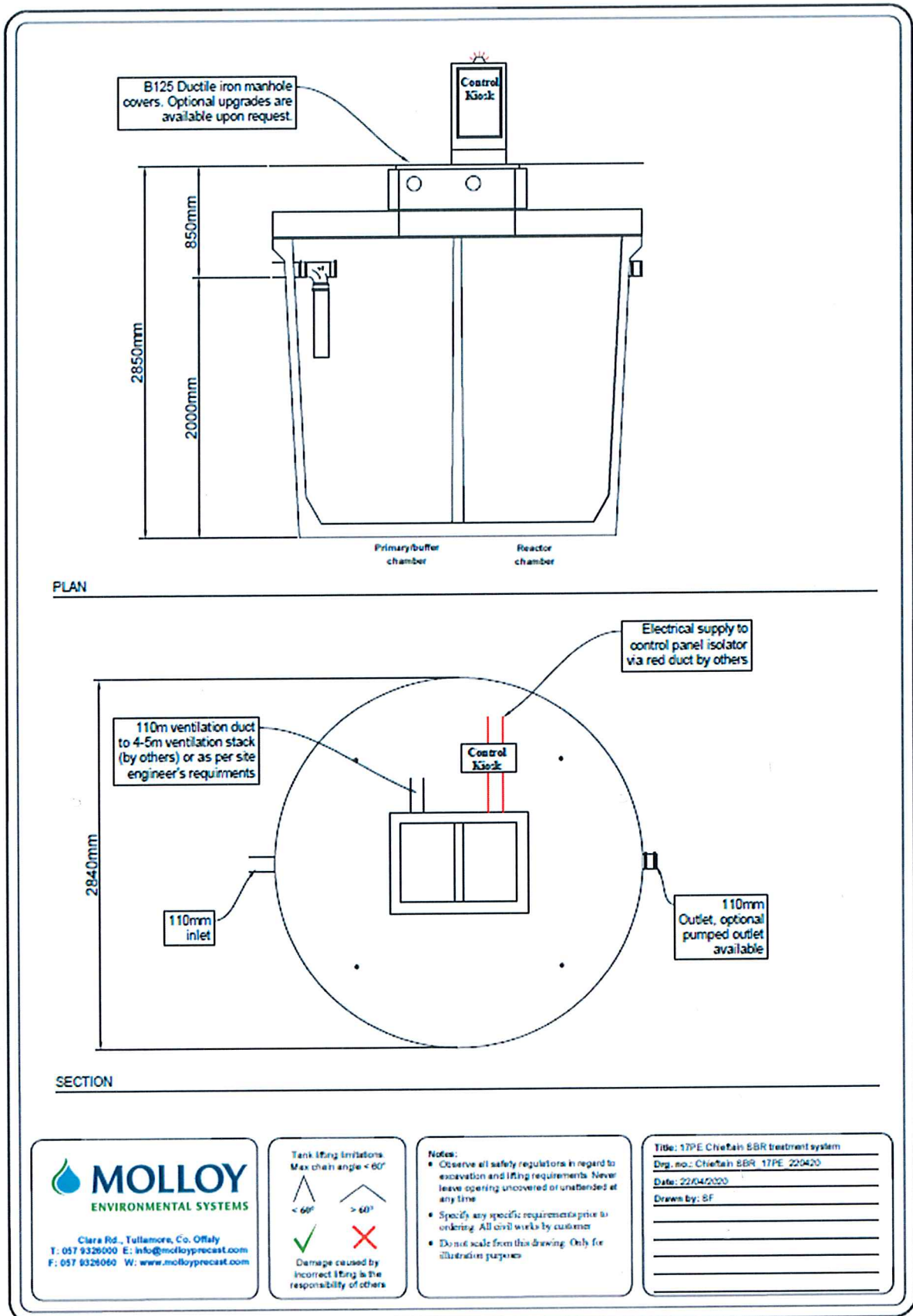


8 PE



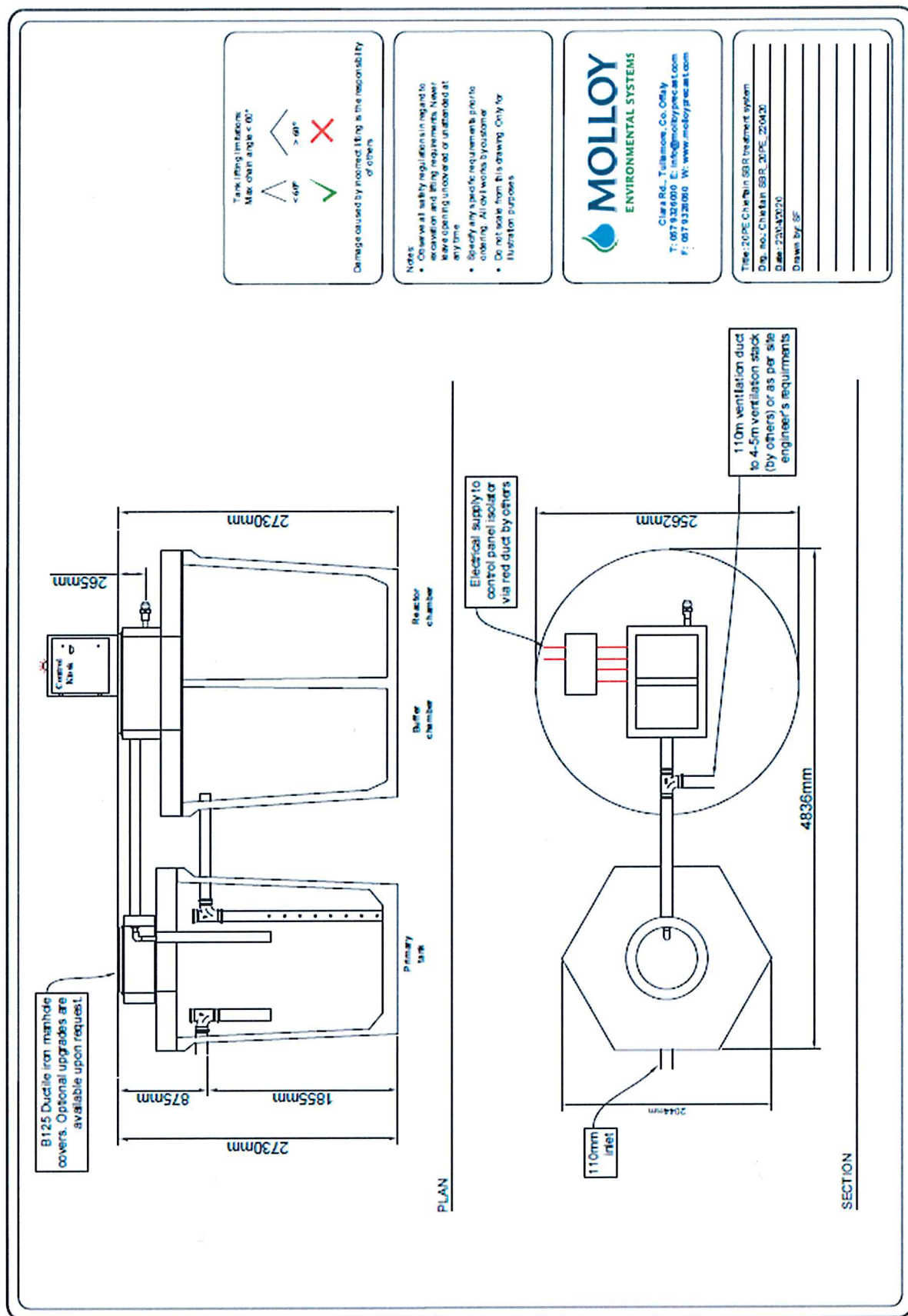
12 PE



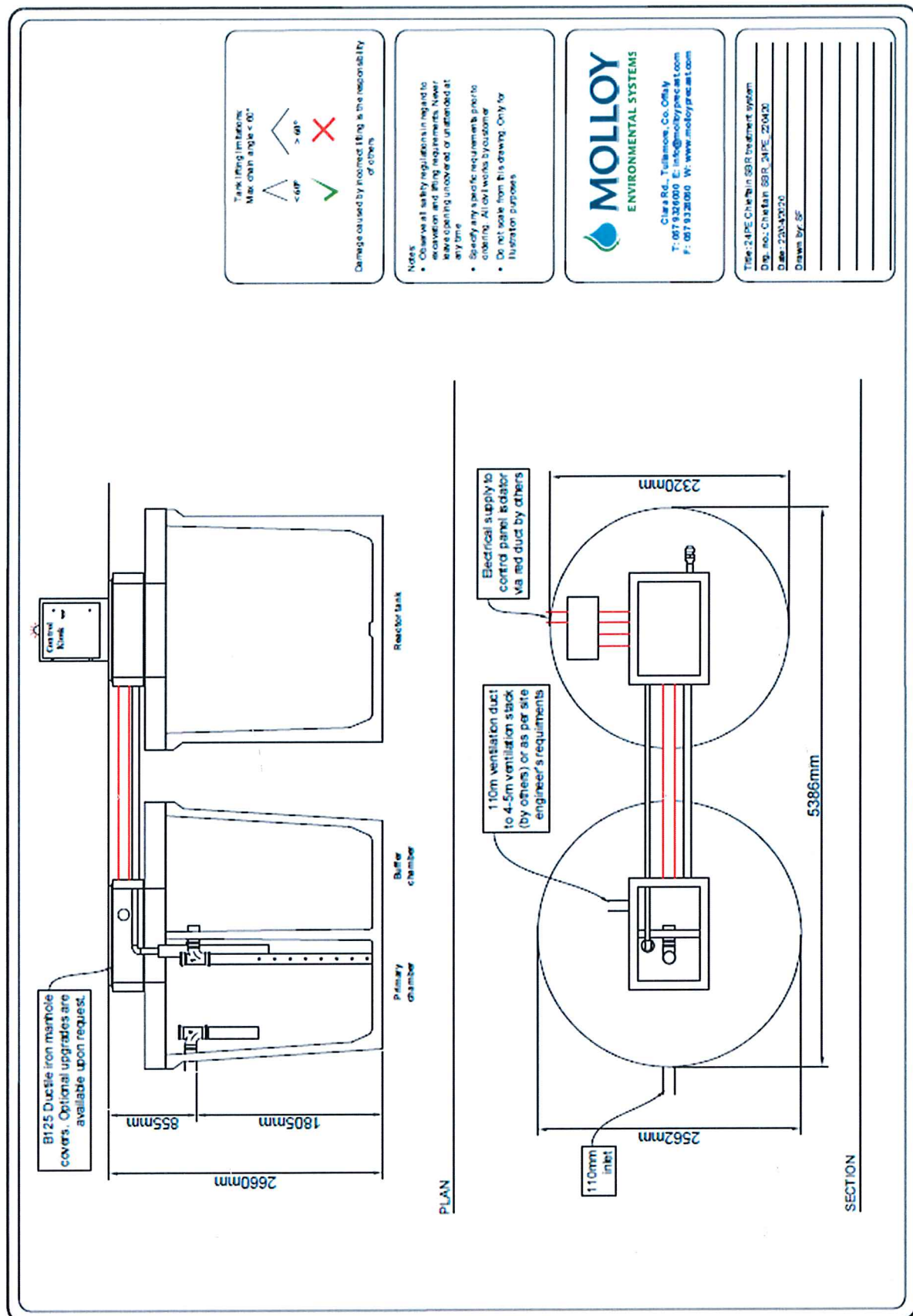


17 PE

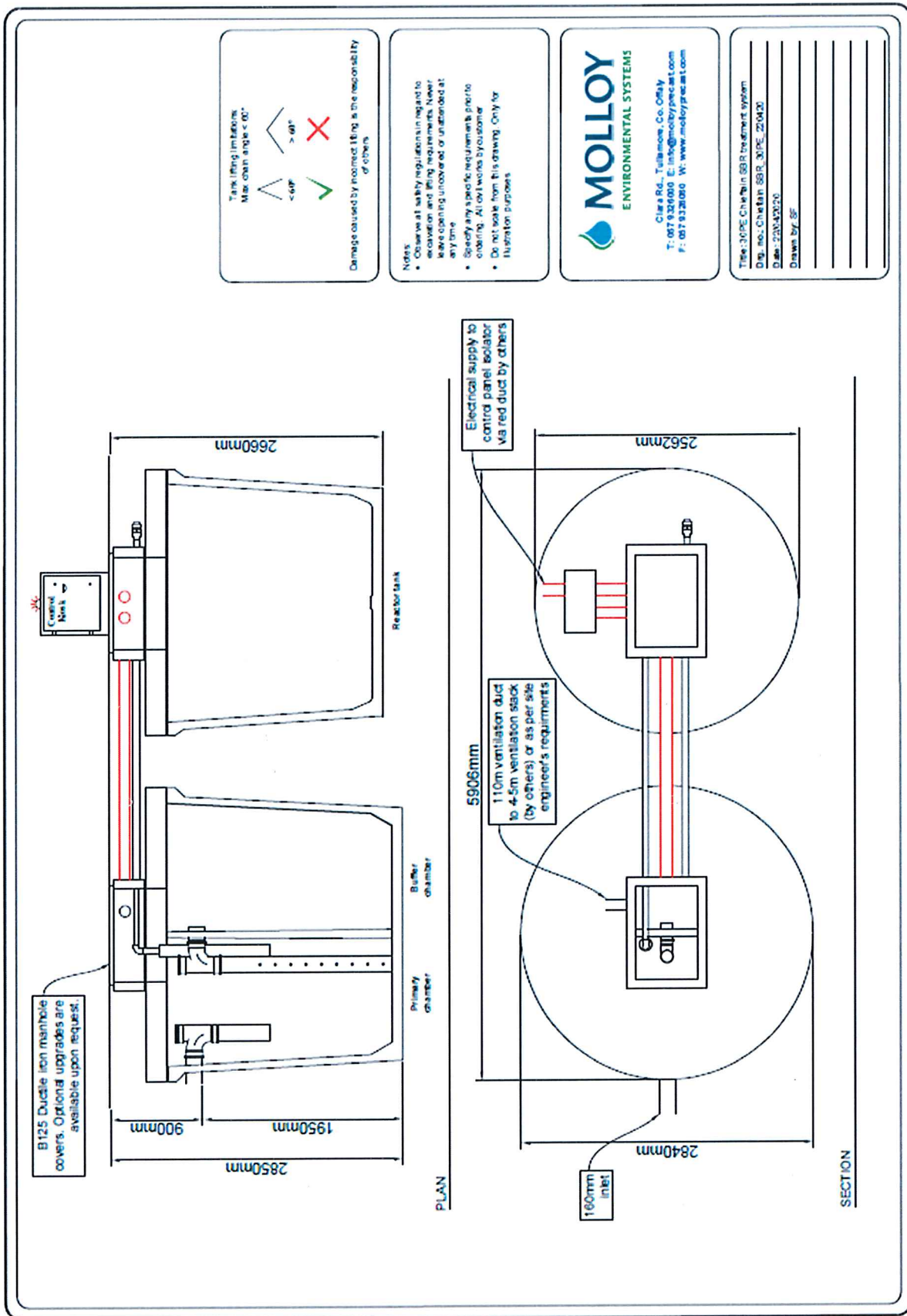
20 PE

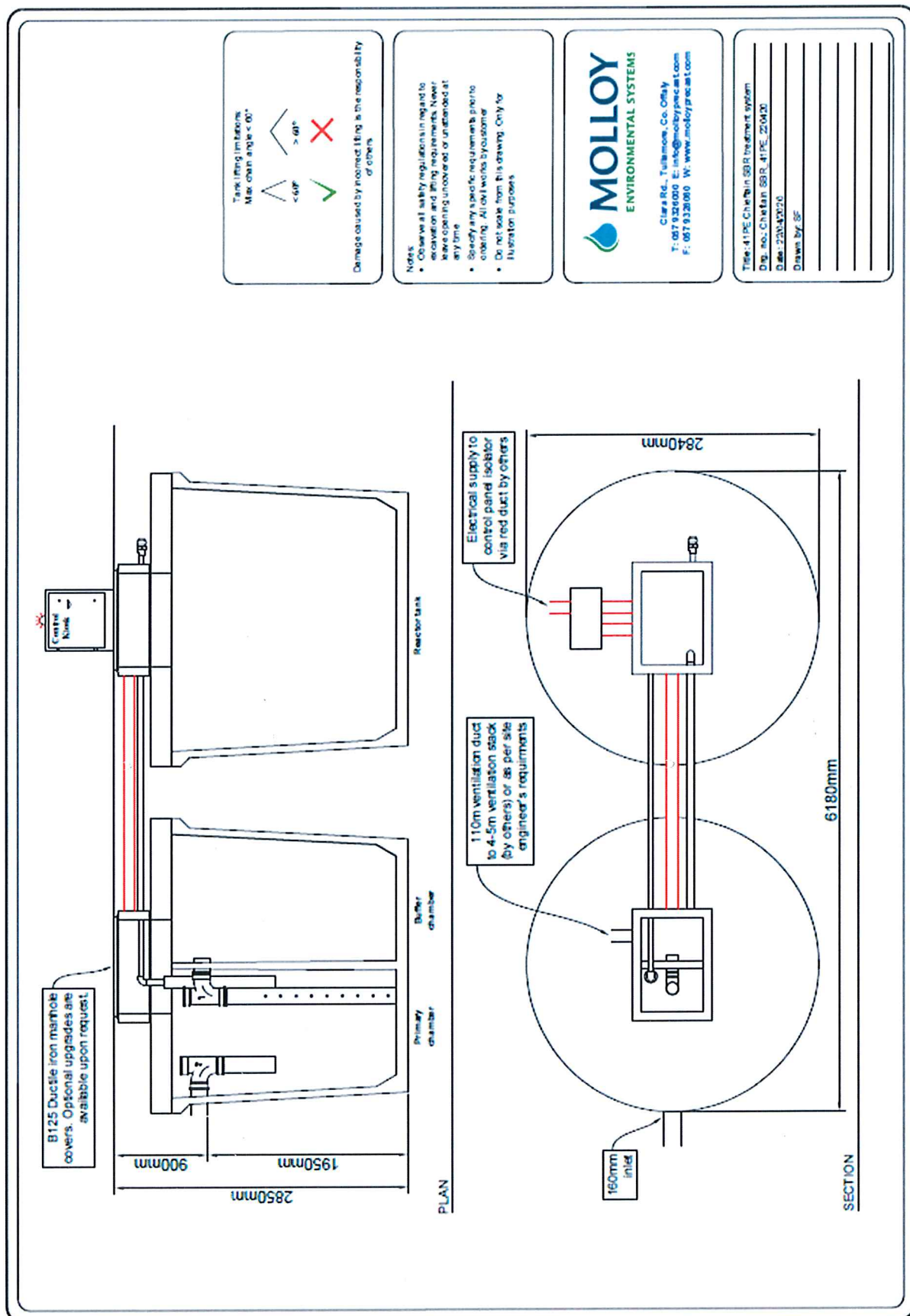


24 PE



30 PE





50 PE

