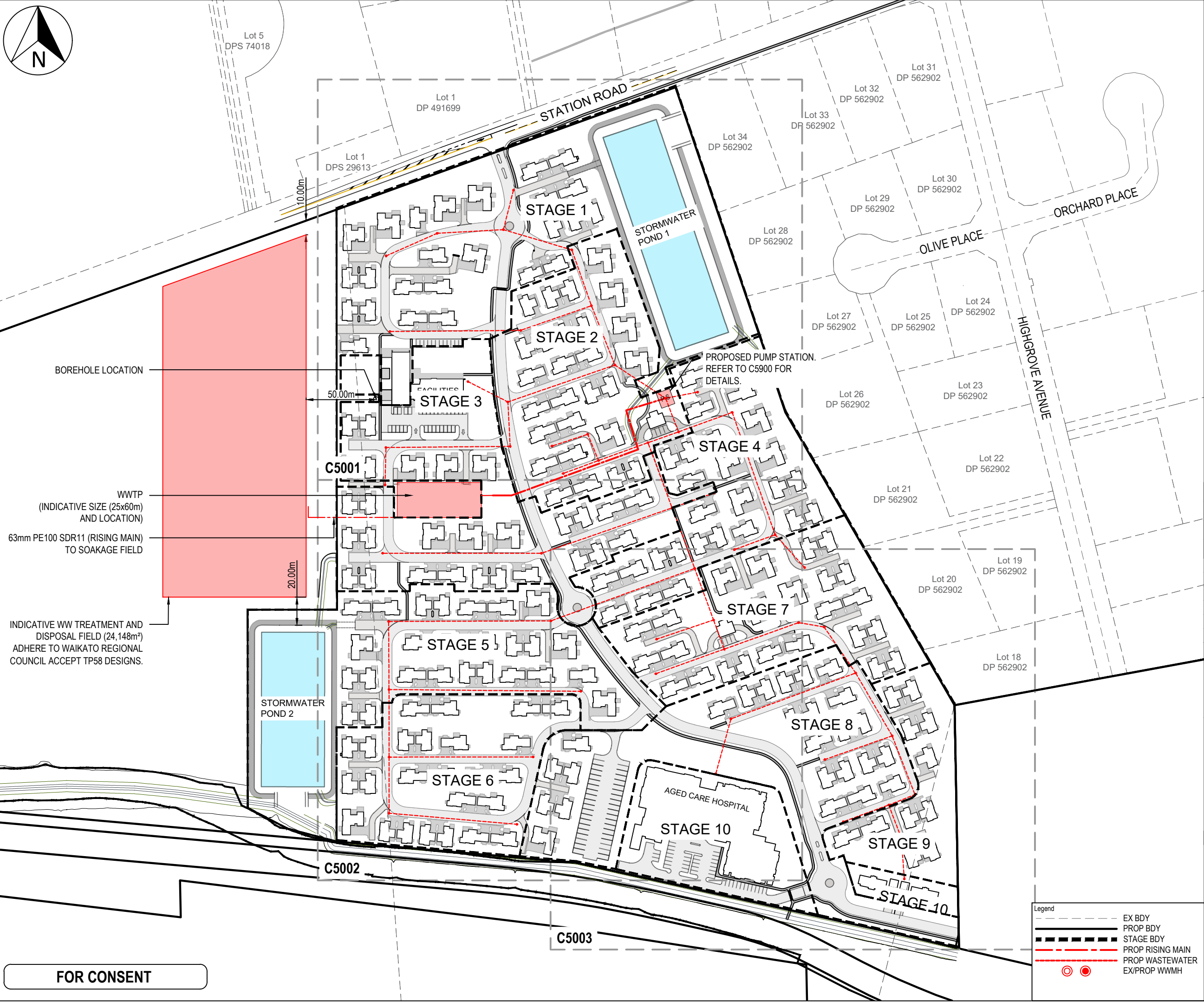


ORIGINAL SIZE: A3
DATE: 6/2/25
FILE PATH: F:\MAVEN MATAMATA\1. PROJECTS\J00606 UDL - HEMMINGS STATION RD\8. DRAWING\2. CAD\3. DESIGN\C5000 - WW.DWG



- Notes
1. All works to be in accordance with Local Council standards.
 2. Co-ordinates in terms of Mount Eden 2000.
 3. Reduced Levels are in terms of NZVD 2016.
 4. It is the contractors responsibility to locate all services that may be affected by their operations.
 5. The contractor shall comply with all relevant OSH and Health & Safety requirements.
 6. The contractor shall obtain all necessary approval from utility operators before commencing work under or near their services.
 7. Minimum clearances & cover shall be in accordance with Local Council standards.
 8. Pipe bedding: 0 - 10% = granular bedding, 10 - 20% = weak concrete bedding, greater than 20% = weak concrete bedding (7mpa plus anti scour blocks at 6m crs).
 9. Approved hardfill to be used in backfilling of all road crossings and vehicle crossings to Local Council standards.
 10. Heavy duty manhole lids and frames to be used in trafficked areas.
 11. All lines are to be 150mmØ PVC SN16, unless shown otherwise.
 12. 150mmØ pipes that do not terminate in a manhole must be terminated with a 100mmØ on a 150mmØ london junction and blank cap.
 13. All lines to be abandoned shall be sealed at each end. Timing of all sealing to be co-ordinated with Local Council staff.

B	FOR CONSENT	MS	04/25
A	FOR REVIEW	MS	01/25
Rev	Description	By	Date
Survey	MAVEN		10/2024
Design	SB		12/2024
Drawn	MS		12/2024
Checked	NP		12/2024



Maven Matamata
matamatainfo@maven.co.nz
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8 Tainui Street, Matamata
New Zealand

Project
**ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD**

Title
**PROPOSED
WASTEWATER OVERALL
LAYOUT PLAN OPTION A**

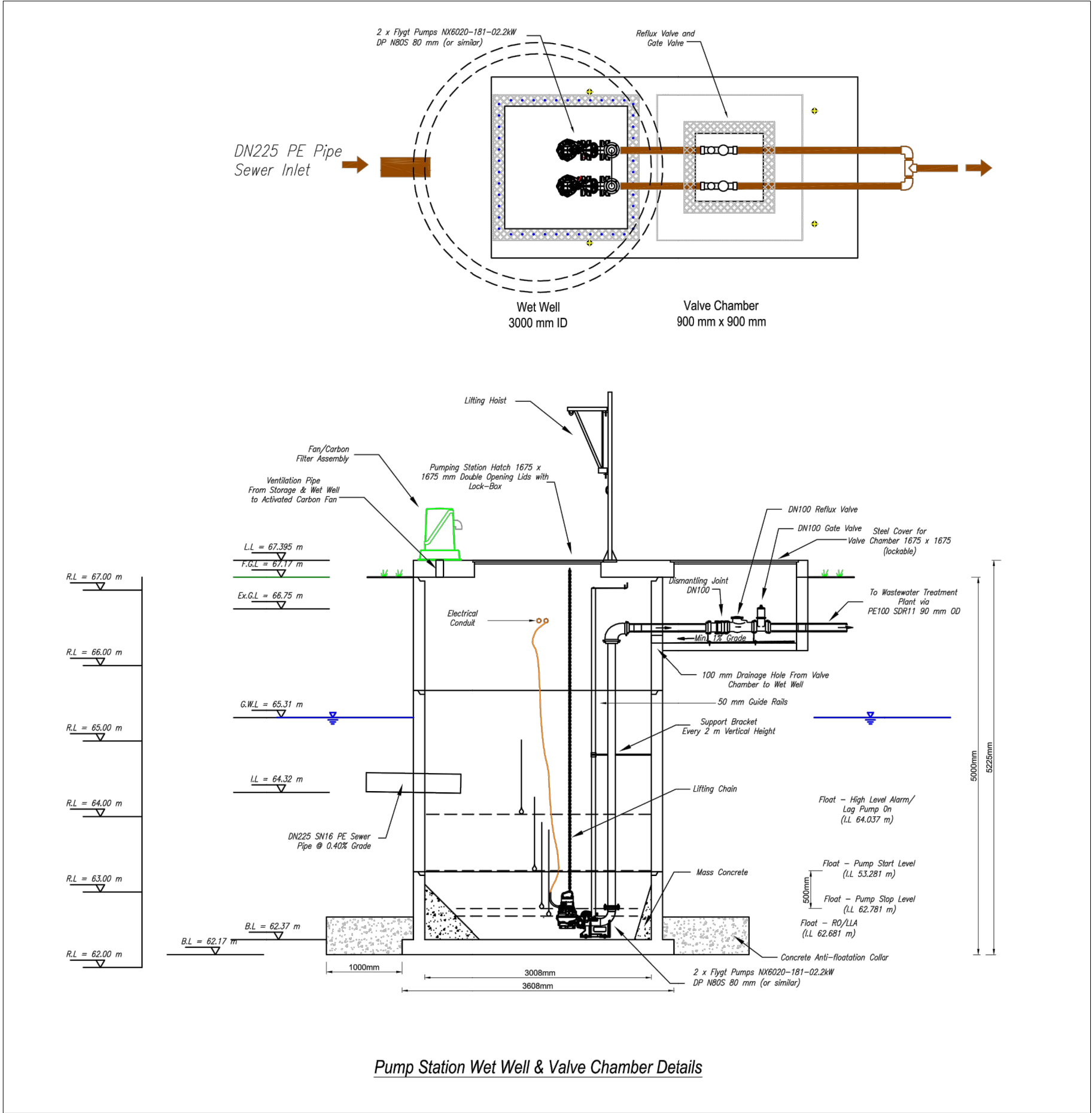
Project no.	J00606		
Scale	1:2500 @ A3		
Cad file	C5000 - WW.DWG		
Drawing no.	C5000A	Rev	B

150mm
100
80
60
40
30
20
10
0

DATE: 05/06/2025

FILE: F:\MAVEN MATAMATA\1. Projects\J00606 UDL - Hemmings Station Rd\6. Drawing\2. CAD\3. Design\C5900 -WW PS SD DETAILS.dwg

ORIGINAL SIZE: A3



- Notes
1. All works to be in accordance with local council standards.
 2. All bends and connections to be no more than 45°
 3. All connections to existing drains shall be carried out by a licensed Drainlayer/Plumber.
 4. Drainage shall comply in full with E1/AS1 building code for storm water.
 5. All cesspits shall have half syphons installed.
 6. All sanitary waste drains shall be uPVC to AS/NZS 1260.
 7. Sewer shall comply in full with AS/NZS 3500.2 - 2003 and/or G13 Building Code
 8. Refer to Hydraulic engineers drawings for building plumbing beyond that shown including down pipe sizes.
 9. All pipes shall be SN16 grade unless otherwise stated.
 10. Drainlayer shall locate and confirm connection invert before starting building works.
 11. Plans to be read in conjunction with Hydraulic Engineers and differences shall clarified be before contractor starts.
 12. All chamber lids shall have a minimum 200mm maximum 300 throat to provide sufficient cover for landscape and pavement over the top.

A	FOR CONSENT	KQ	06/25
Rev	Description	By	Date
		By	Date
Survey	MAVEN		10/2024
Design	KQ		06/2025
Drawn	KQ		06/2025
Checked	SB		06/2025

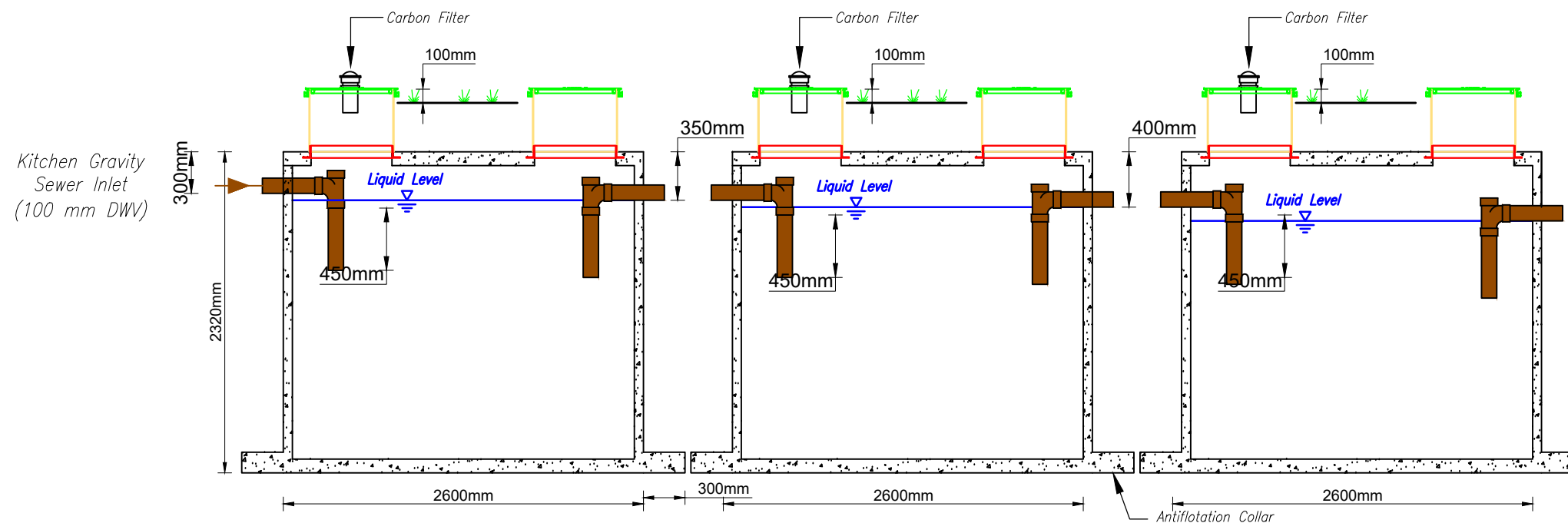
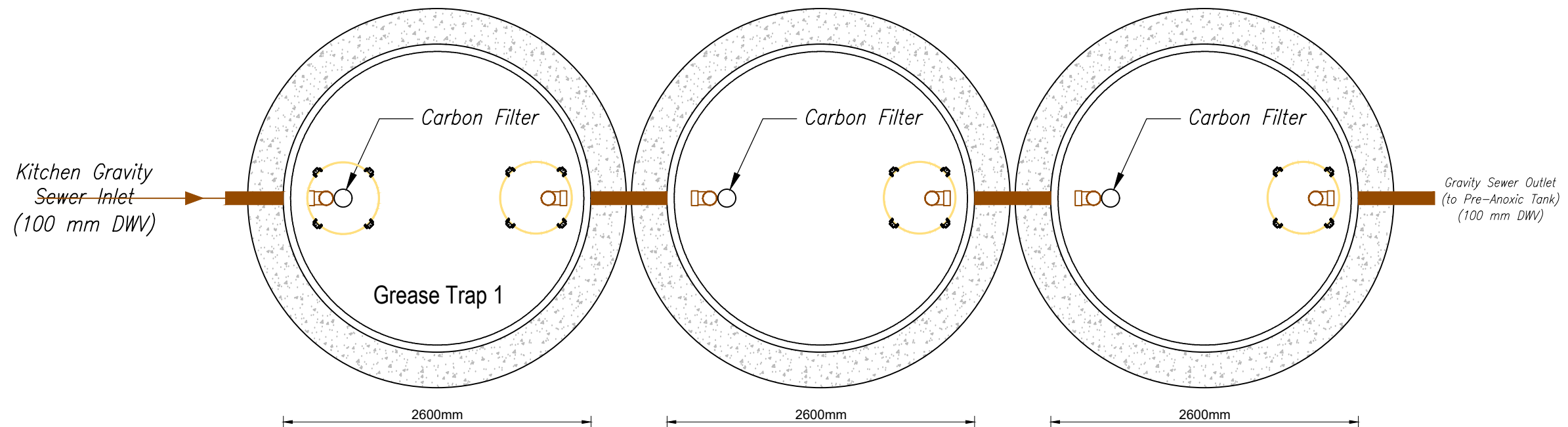


Project
**ASHBOURNE
RETIREMENT VILLAGE
MATAMATA
FOR
UNITY DEVELOPMENT LTD**

Title
**PROPOSED WW
PUMP STATION
STANDARD DETAIL PLAN**

Project no.	J00606		
Scale	NTS		
Cad file	C5900 -WW PS SD DETAILS.DWG		
Drawing no.	C5900	Rev	A

FOR CONSENT



LEGEND:

- Screened Effluent
- Underdrain Collection
- Pod Dosing
- Pod Ventilation
- Discharge
- Electrical
- Tank Inter-connection (Low Level)
- Tank Inter-connection (High Level)
- Mixing Pipe
- Sodium Lauryl Sulphate

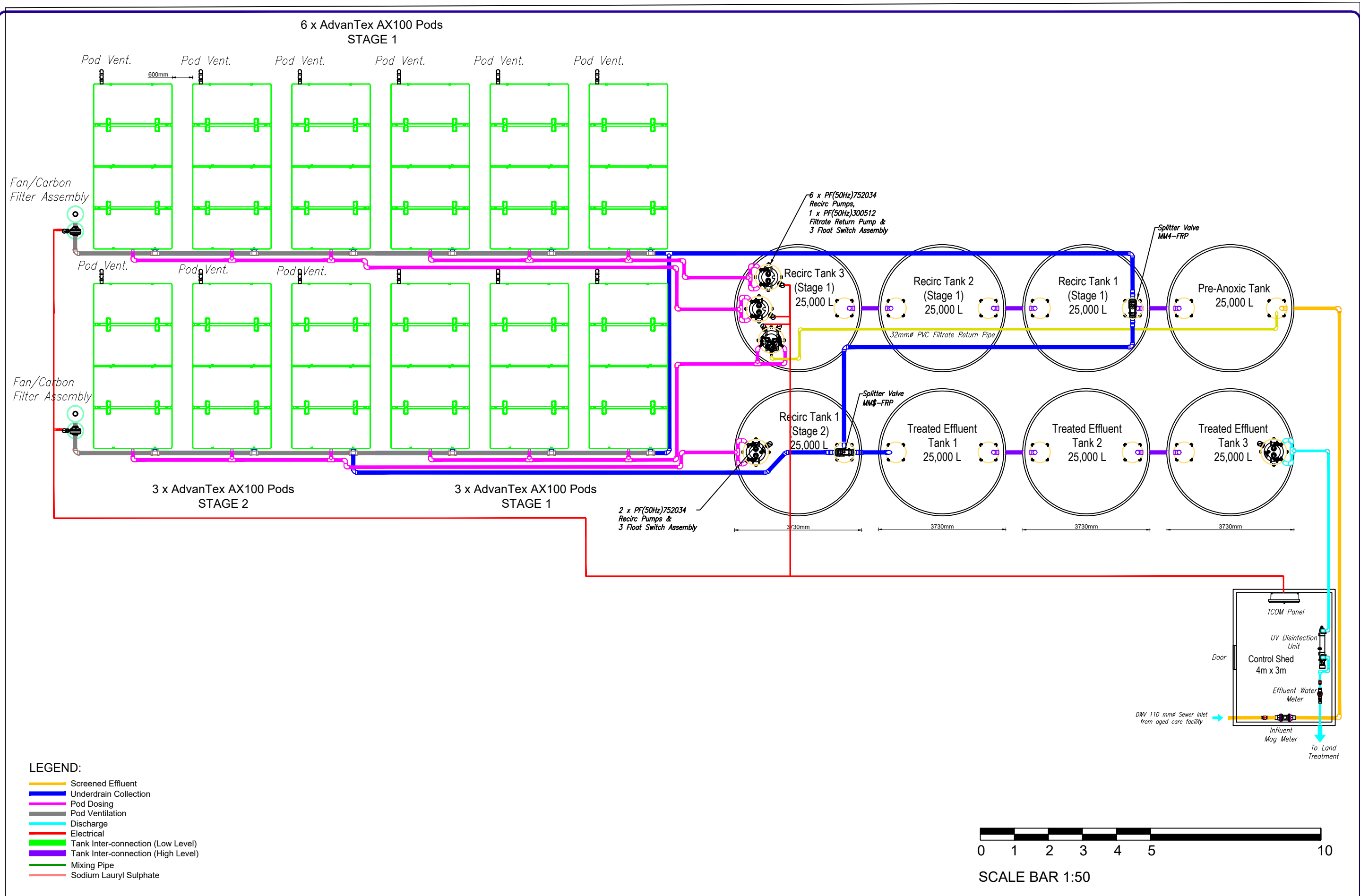


SCALE BAR 1:20

			DATE	© COPYRIGHT InnoFlow Technologies NZ Ltd 2014		 wastewater specialists www.innoflowtechnologies.com	New Zealand P.O. Box 300 572 North Shore City 0752 New Zealand Freephone 0800 innoFlow Ph: + 64 9 426 1027 Fax: + 64 9 426 1047 info@innoflow.co.nz	Australia P.O. Box 263 Ormeau Queensland 4208 Australia Freephone 0800 innoFlow Ph: + 61 7 5549 2416 Fax: + 61 7 5549 2416	CLIENT	PROJECT	Ashbourn Retirement Village	DRAWING No.	
			20th Nov 2024	APPROVED							TITLE		REVISION
				CHECKED									
			SCALE	DESIGNED									
-	-	-	1 : 20 (A1)	STATUS						Concept			
REV.	DESCRIPTION	DATE											

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			20th Nov 2024	APPROVED								
				CHECKED								
				DESIGNED								
			SCALE	STATUS								
-	-	-	1 : 50 (A1)	Concept							TITLE AdvanTex Wastewater Treatment Plant Plan	REVISION
REV.	DESCRIPTION	DATE										

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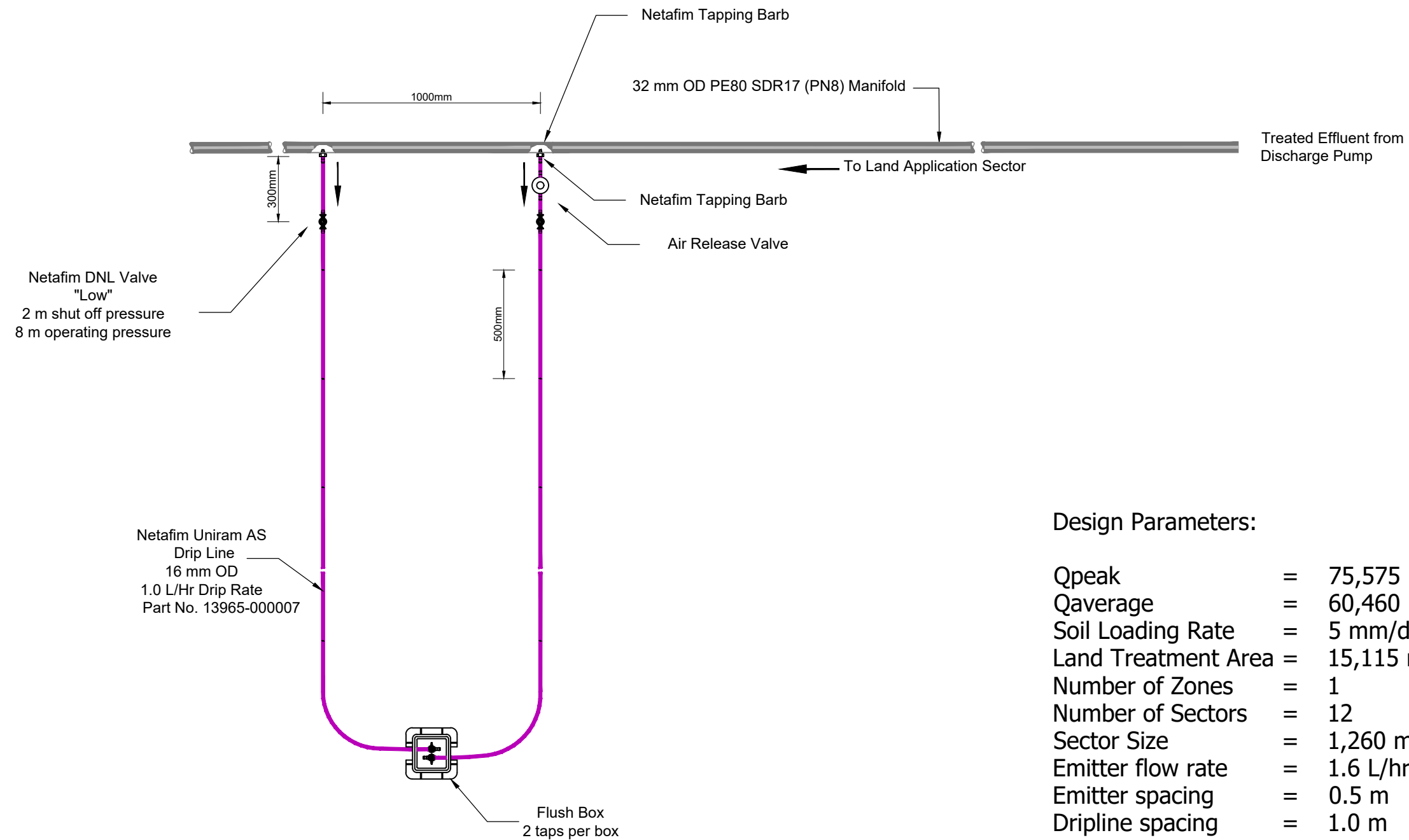
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CLIENT

PROJECT

DRAWING No.

- Legend:
- DNL - Durable Non-Leakage Valve
 - AS - Anti Syphon Valve
 - XR - Xtra-Root Protection
 - CV - Anti Drain & Non Leakage Mechanism



Design Parameters:

Qpeak	=	75,575 LPD
Qaverage	=	60,460 LPD
Soil Loading Rate	=	5 mm/day
Land Treatment Area	=	15,115 m ²
Number of Zones	=	1
Number of Sectors	=	12
Sector Size	=	1,260 m ²
Emitter flow rate	=	1.6 L/hr
Emitter spacing	=	0.5 m
Dripline spacing	=	1.0 m
Sector flow rate	=	4032 L/hr
Pump Duty	=	2.24 L/sec @ 25 m TDH

			DATE	© COPYRIGHT InnoFlow Technologies NZ Ltd 2014			 wastewater specialists www.innoflowtechnologies.com	New Zealand P.O. Box 300 572 North Shore City 0752 New Zealand Freephone 0800 innoFlow Ph: + 64 9 426 1027 Fax: + 64 9 426 1047 info@innoflow.co.nz	Australia P.O. Box 263 Ormeau Queensland 4208 Australia Freephone 0800 innoFlow Ph: + 61 7 5549 2416 Fax: + 61 7 5549 2416	CLIENT	PROJECT Ashbourn Retirement Village	DRAWING No.			
			20th Nov 2024	APPROVED											
				CHECKED											
			SCALE	DESIGNED			Concept				TITLE Land Treatment Area Detail	REVISION			
-	-	-	N.T.S	STATUS											
REV.	DESCRIPTION	DATE													

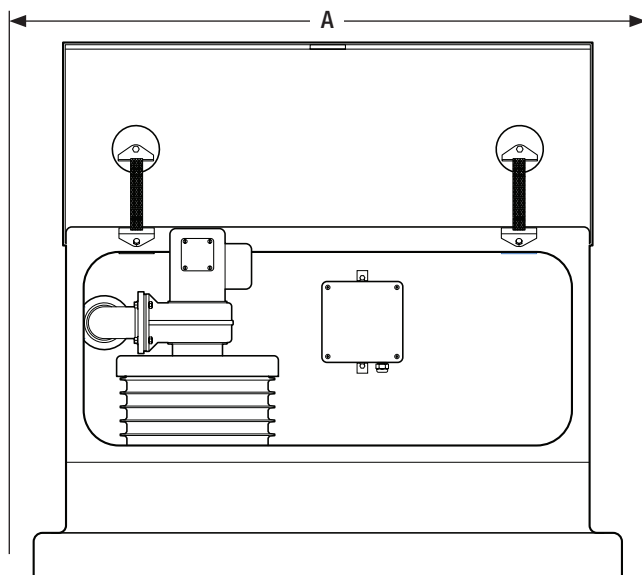
AdvanTex® Vent Fan Assembly

Applications

The AdvanTex® Vent Fan Assembly is used in commercial-sized AdvanTex Treatment Systems to gently pull air through the textile media, ensuring that adequate oxygen is available for biological treatment.

General

Orenco's AdvanTex® Vent Fan Assembly consists of a waterproof fiberglass enclosure with equipment for venting onsite wastewater treatment systems. One enclosure can hold a vent fan with a carbon filter basin, a splice box, and an optional heater. The carbon filter scrubs the air that the system exhausts. An optional heater can be added in areas where cold temperatures require that air is heated before it enters the AdvanTex treatment pods. The fan can be wired for 60 Hz or 50 Hz power and 120 or 240 VAC; heaters can be supplied for either 120 or 240 VAC power.



Vent fan enclosure, front view (lid open, showing components)

Standard Models

AXVFACF	Vent Fan Assembly, LMF-3 fan, tan
AXVFACF-GREEN	Vent Fan Assembly, LMF-3 fan, green
AXVFACF-HT	Vent Fan Assembly, LMF-3 fan, HT10 heater, tan
AXVFACF-HT-GREEN	Vent Fan Assembly, LMF-3 fan, HT10 heater, green

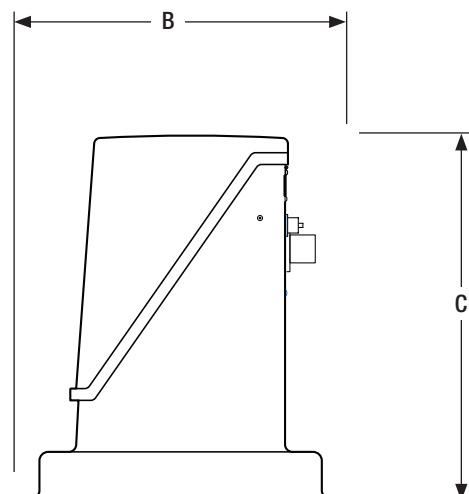
Vent Fan Enclosure

Materials of Construction

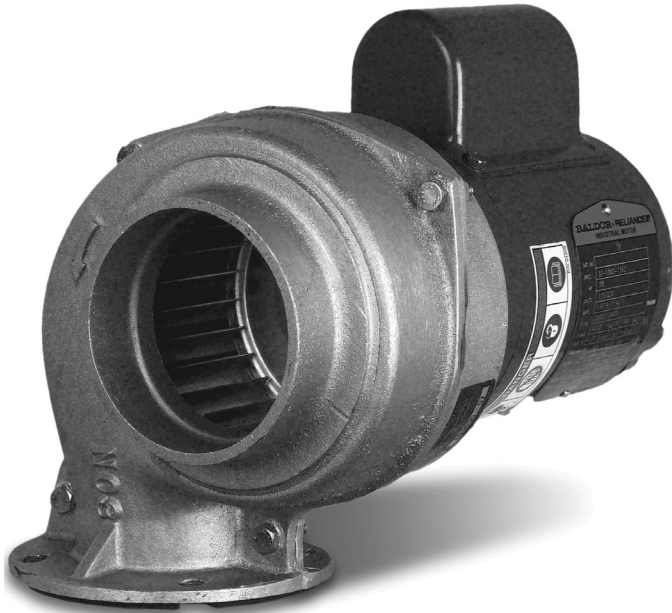
Shell	Fiberglass-reinforced polyester (FRP)
Hardware	Stainless steel
Exterior finish	Tan, textured, UV-resistant (optional green color available)
Straps	Nylon

Dimensions

A, in. (mm)	50 (1270)
B, in. (mm)	24 (610)
C, in. (mm)	30 (762)
Volume, ft ³ (m ³)	15.1 (0.43)
Footprint, ft ² (m ²)	8.3 (0.77)



Vent fan enclosure, side view (lid closed)



Vent Fan

Materials of Construction

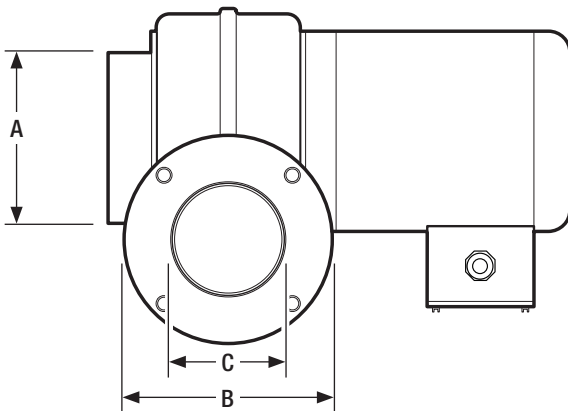
Housing	Aluminum
Wheel	Steel

Dimensions

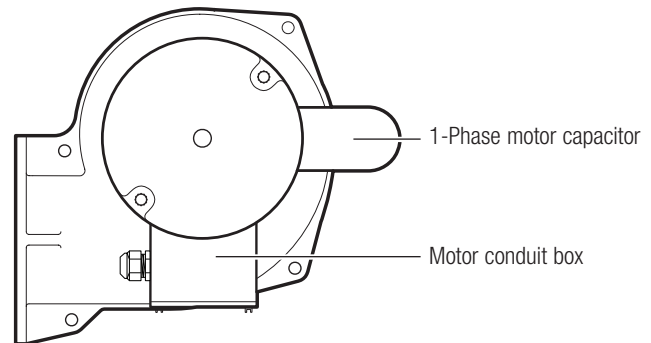
A, in. (mm)	4 (100)
B, in. (mm)	2-5/8 (67)
C, in. (mm)	4-7/8 (124)
Inlet nominal pipe size, in. (mm)	4 (100)

Performance Data

	60 Hz	50 Hz
Horsepower (kW)	0.08 (0.06)	0.08 (0.06)
Phase	1 phase	1 phase
Voltage	115/240	240
Amperage	1.4/0.7	0.9
RPM	3400	2900
CFM at 0 in. H ₂ O static pressure	245	205
CFM at 0.4 in. H ₂ O static pressure	220	170
CFM at 0.8 in. H ₂ O static pressure	190	130
CFM at 1.5 in. H ₂ O static pressure	120	n/a



AXVFACF vent fan, outlet view



AXVFACF vent fan, side view

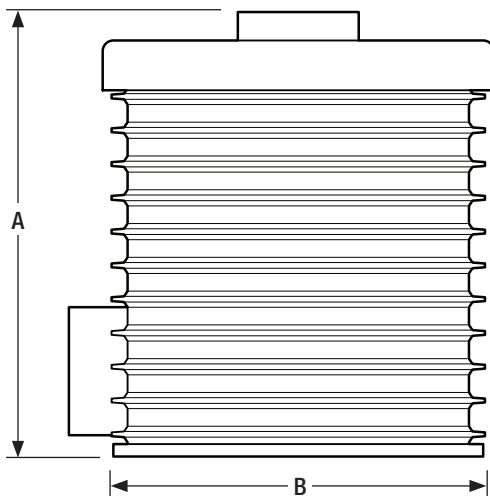
Carbon Filter Basin

Materials of Construction

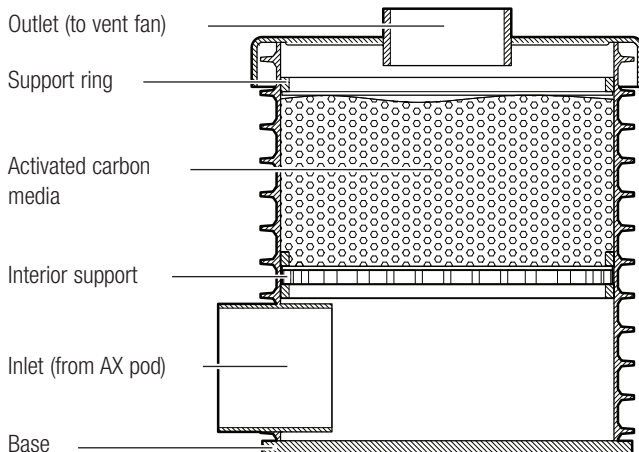
Housing	PVC
Bottom	Fiberglass-reinforced polyester (FRP)
Interior supports	Polypropylene grid, polyethylene screen
Support rings	PVC
Lid	Fiberglass
Fill material	Activated carbon media

Dimensions

A, in. (mm)	21.5 (546)
B, in. (mm)	12.0 (305)
Outlet diameter	Accepts nominal 3-in. PVC pipe
Inlet diameter	Accepts nominal 2-in. PVC pipe
Basin capacity, lbs (kg)	15 (6.8)



Carbon filter basin dimensions



Carbon filter basin components, cutaway view

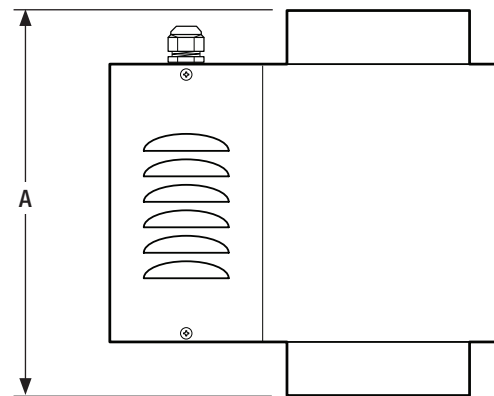
Heater (Optional)

Dimensions

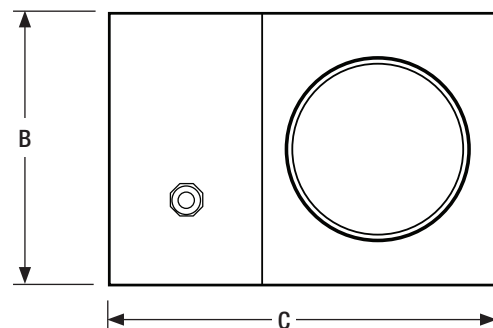
Outlet diameter	Fits nominal 3-in. Class 125 PVC pipe	
A, in. (mm)	11.75 (297)	
B, in. (mm)	8.25 (210)	
C, in. (mm)	11.25 (286)	

Performance Data	120 VAC	240 VAC*
Watts	1000	1000
Phase	1	1
Amperage	8.3	4.2

* Compatible with 60 Hz and 50 Hz power sources.



Heater, side view



Heater, top view