

**LEGEND**

- PROPERTY BOUNDARY
- CADASTRAL LOT BOUNDARY
- PROPOSED INFRASTRUCTURE
- EXISTING INFRASTRUCTURE
- INTERNAL ROAD
- EF — EF — EFFLUENT TRANSFER PIPE
- REGULATED VEGETATION—CATEGORY B
- REGULATED VEGETATION—CATEGORY C
- MAPPED STREAM ORDER
- STREAM ORDER BUFFER (100m)
- PROPOSED PIGGERY EUA (167.6 HA TOTAL)
- 🏠 SENSITIVE RECEPTOR
- 🏠 DWELLING OWNED BY APPLICANT

**NOTES:**

1. AERIAL IMAGE SOURCED FROM ESRI MAPPING SERVICES. IMAGE DATE UNKNOWN.
2. FEATURES MAY HAVE BEEN DIGITISED FROM PLANS OR AERIAL PHOTOGRAPHS AND ACCURACY IS LIMITED.
3. CADASTRAL DATA SOURCED FROM QUEENSLAND SPATIAL CATALOGUE (QSPATIAL). EXTRACTION DATE 29/07/2023.

**SITE OVERVIEW**

SITE	CAPACITY	UNITS
APPROVED	11,500	SPU
EXISTING	11,500	SPU
PROPOSED	13,000	SPU
COMBINED	24,500	SPU

RECEIVED

15/04/2026

TOOWOOMBA  
REGIONAL COUNCIL

CLIENT  
CEFN PTY LTD

PROJECT  
SUSCO – PIGGERY EXPANSION

LOCATION  
STRATHANE ROAD, LEYBURN QLD 4365

SHEET TITLE  
PROPERTY PLAN (AERIAL IMAGERY)

**agDSA**  
AGRICULTURAL DEVELOPMENT  
SERVICES AUSTRALIA

PO BOX 292  
TOOWOOMBA QLD 4350  
PH: +61 473 171 957  
E: contact@agdsa.com.au

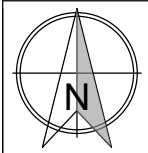
SCALE

0 150 300 450m

SCALE 1:7,500 (A1) 1:15,000 (A3)



DESIGNED	FOR APPROVAL			JOB CODE	CEFN-005
TCG				SHEET NUMBER	A001
CHECKED				CURRENT REVISION	IFA3
MRN	28/01/2025	IFA3	ENLARGED CAP TO 21ML	MRN	
PROJECT MANAGER	26/11/2025	IFA2	UPDATED RECEPTORS	MRN	
MRN	10/06/2025	IFA1	ISSUED FOR APPROVAL	TCG	
	DATE	REV	DESCRIPTION	APP	
REVISIONS					



**LEGEND**

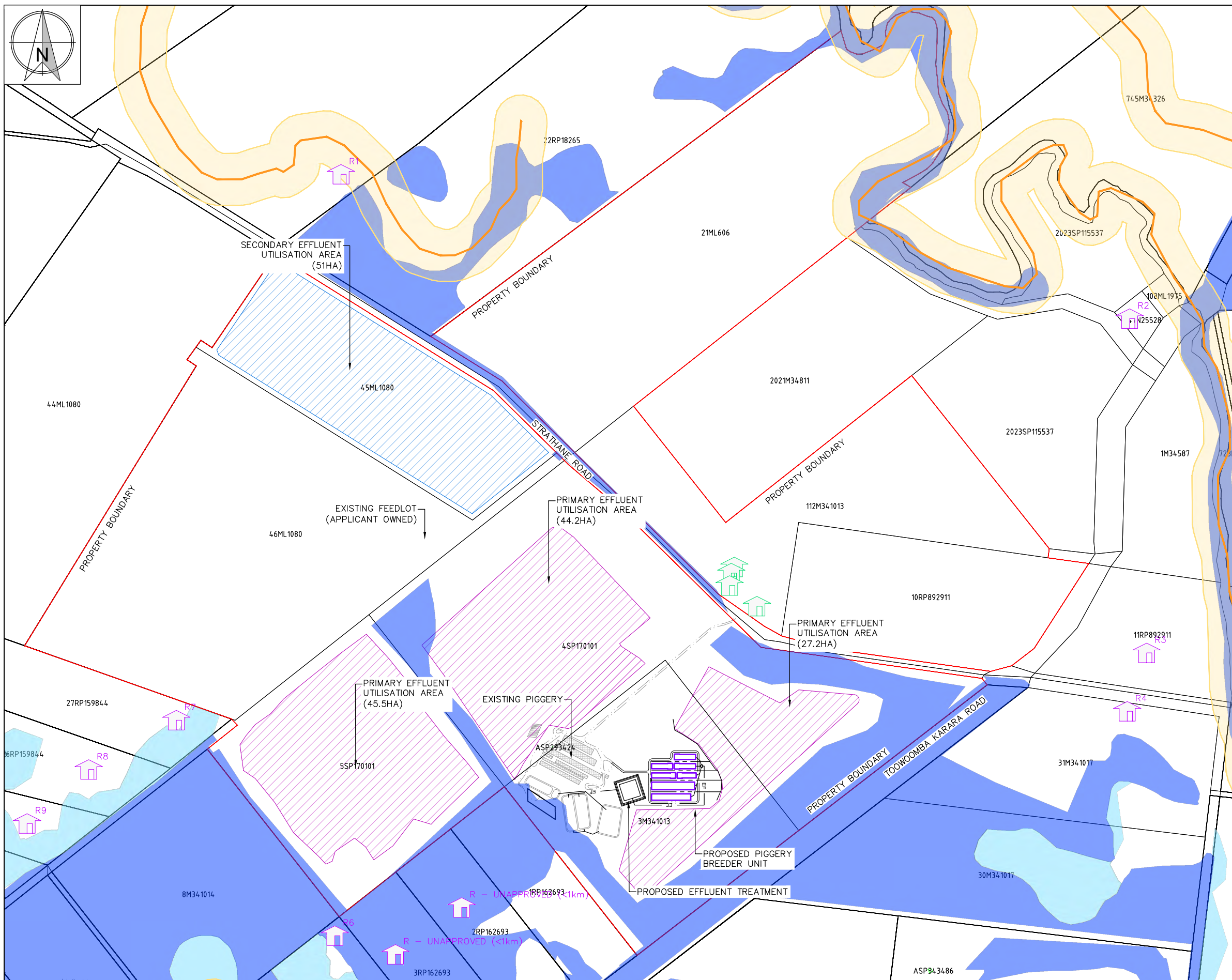
- PROPERTY BOUNDARY
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- R1 SENSITIVE RECEPTOR
- R2 DWELLING OWNED BY APPLICANT

**NOTES:**

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COMBINED	24,500	SPU



CLIENT  
CEFN PTY LTD

PROJECT  
SUSCO – PIGGERY EXPANSION

LOCATION  
STRATHANE ROAD, LEYBURN QLD 4365

SHEET TITLE  
PROPERTY PLAN



SCALE

0 150 300 450m

SCALE 1:7,500 (A1) 1:15,000 (A3)



DESIGNED  
TCG

CHECKED  
MRN

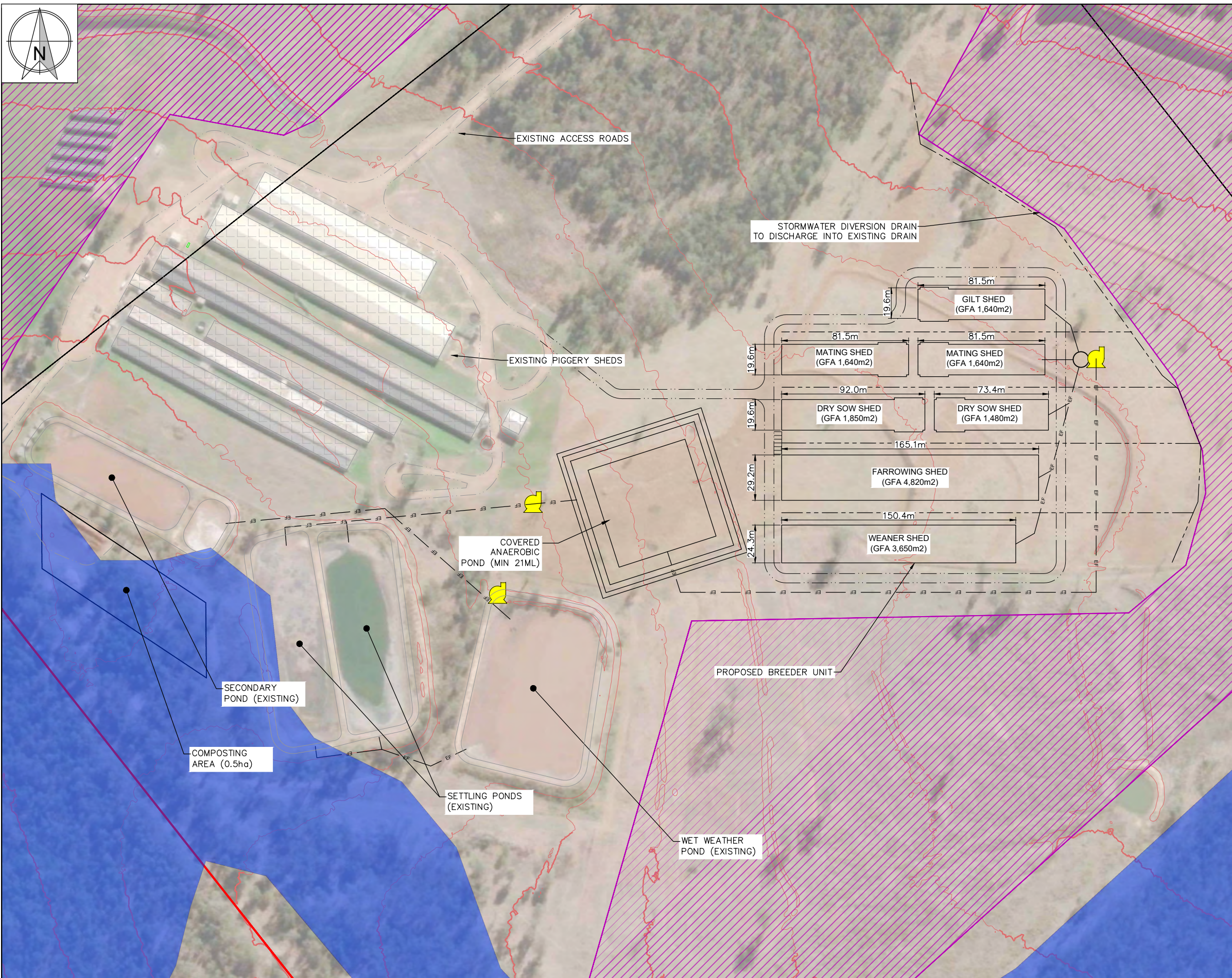
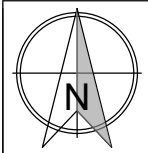
PROJECT MANAGER  
MRN

FOR APPROVAL			
DATE	REV	DESCRIPTION	MRN
28/01/2025	IFA3	ENLARGED CAP TO 21ML	MRN
26/11/2025	IFA2	UPDATED RECEPTORS	MRN
10/06/2025	IFA1	ISSUED FOR APPROVAL	TCG
			APP
REVISIONS			

JOB CODE  
CEFN-005

SHEET NUMBER  
A002

CURRENT REVISION  
IFA3



**LEGEND**

- PROPERTY BOUNDARY
- CADASTRAL LOT BOUNDARY
- PROPOSED INFRASTRUCTURE
- EXISTING INFRASTRUCTURE
- INTERNAL ROAD
- STORMWATER DIVERSION DRAIN/BANK
- EF EF EFFLUENT TRANSFER PIPE
- REGULATED VEGETATION—CATEGORY B
- REGULATED VEGETATION—CATEGORY C
- CONTOURS - 1m EXISTING SURFACE
- MAPPED STREAM ORDER
- STREAM ORDER BUFFER (100m)
- PROPOSED PIGGERY EUA (167.6 HA TOTAL)
- PROPOSED AMENITIES EUA (0.3 HA TOTAL)
- P PROPOSED EFFLUENT PUMP

- NOTES:**
1. AERIAL IMAGE SOURCED FROM ESRI MAPPING SERVICES. IMAGE DATE UNKNOWN.
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  3. CADASTRAL DATA SOURCED FROM QUEENSLAND SPATIAL CATALOGUE (QSPATIAL). EXTRACTION DATE 15/12/2024.

SITE OVERVIEW		
SITE	CAPACITY (SPU)	GFA (m <sup>2</sup> )
APPROVED	11,500	—
EXISTING	11,500	17,570
PROPOSED	13,000	16,900
COMBINED	24,500	34,470

CLIENT  
CEFN PTY LTD

PROJECT  
SUSCO — PIGGERY EXPANSION

LOCATION  
STRATHANE ROAD, LEYBURN QLD 4365

SHEET TITLE  
CONCEPT PLAN

**AgDSA**  
AGRICULTURAL DEVELOPMENT SERVICES AUSTRALIA

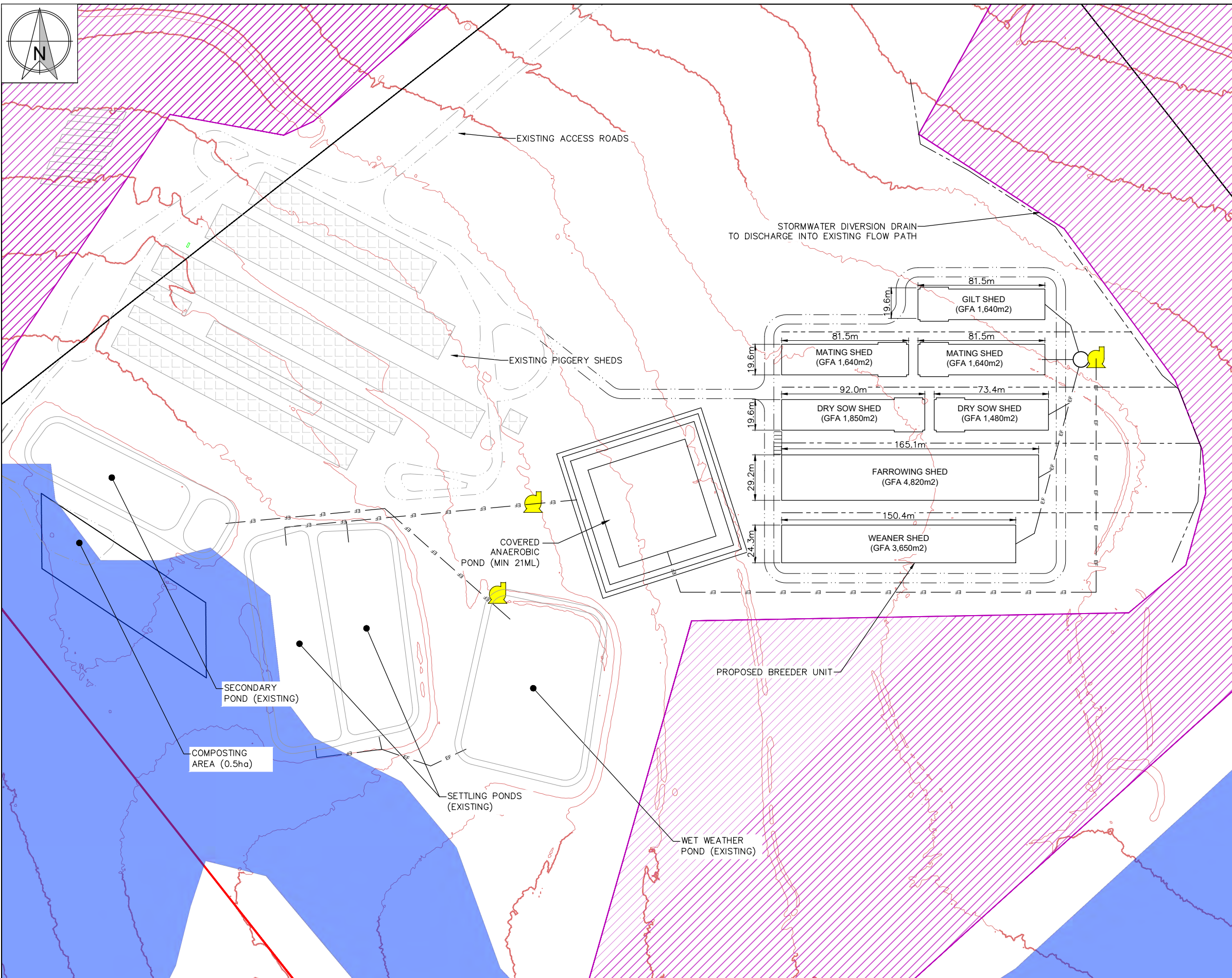
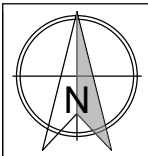
PO BOX 292  
TOOWOOMBA QLD 4350  
PH: +61 473 171 957  
E: contact@agdsa.com.au

SCALE

SCALE 1:1250 (A1) 1:2500 (A3)



DESIGNED TCG	FOR APPROVAL			JOB CODE CEFN-005
CHECKED MRN				SHEET NUMBER A003
PROJECT MANAGER MRN	28/01/2026 19/06/2025	IFA2 IFA1	ENLARGED CAP TO 21ML ISSUED FOR APPROVAL	CURRENT REVISION IFA2
REVISIONS				



**LEGEND**

- PROPERTY BOUNDARY
- CADASTRAL LOT BOUNDARY
- PROPOSED INFRASTRUCTURE
- EXISTING INFRASTRUCTURE
- INTERNAL ROAD
- STORMWATER DIVERSION DRAIN/BANK
- EF EF EFFLUENT TRANSFER PIPE
- REGULATED VEGETATION—CATEGORY B
- REGULATED VEGETATION—CATEGORY C
- CONTOURS - 1m EXISTING SURFACE
- MAPPED STREAM ORDER
- STREAM ORDER BUFFER (100m)
- PROPOSED PIGGERY EUA (167.6 HA TOTAL)
- PROPOSED AMENITIES EUA (0.3 HA TOTAL)
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- NOTES:**
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APPROVED	11,500	—
EXISTING	11,500	17,570
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COMBINED	24,500	34,470

CLIENT  
CEFN PTY LTD

PROJECT  
SUSCO — PIGGERY EXPANSION

LOCATION  
STRATHANE ROAD, LEYBURN QLD 4365

SHEET TITLE  
DESIGN PLAN

AGRICULTURAL DEVELOPMENT SERVICES AUSTRALIA

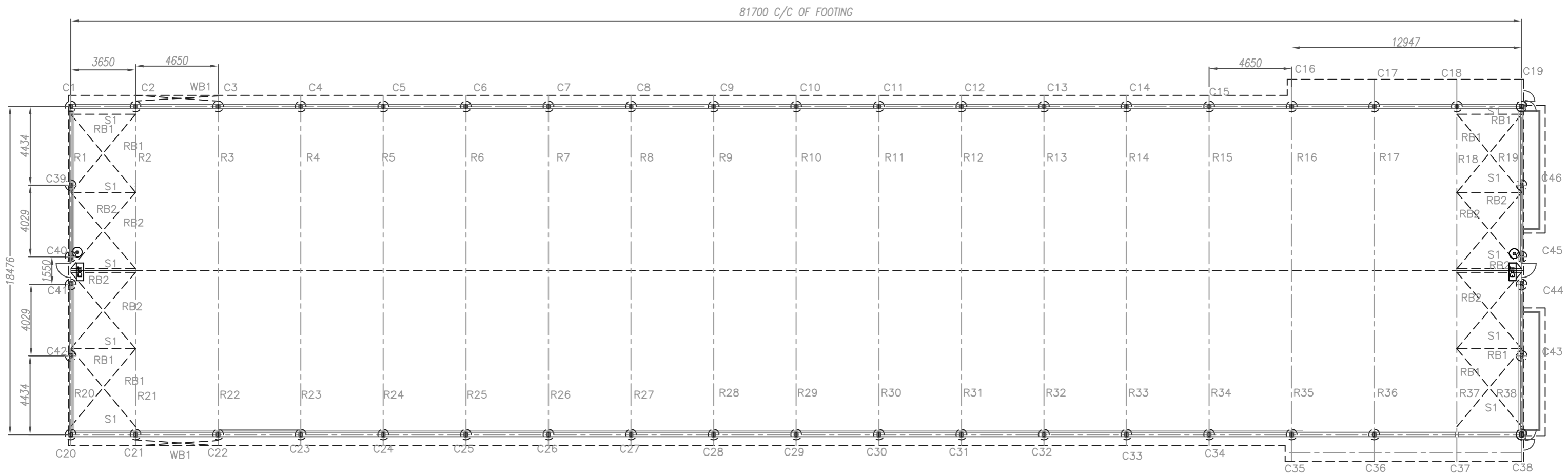
PO BOX 292  
TOOWOOMBA QLD 4350  
PH: +61 473 171 957  
E: contact@agdasa.com.au

SCALE

SCALE 1:1250 (A1) 1:2500 (A3)



DESIGNED TCG	FOR APPROVAL			JOB CODE CEFN-005
CHECKED MRN				SHEET NUMBER A004
PROJECT MANAGER MRN	28/01/2026 10/06/2025	IFA2 IFA1	ENLARGED CAP TO 21ML ISSUED FOR APPROVAL	CURRENT REVISION IFA2
	DATE	REV	DESCRIPTION	MRN TCG APP
REVISIONS				



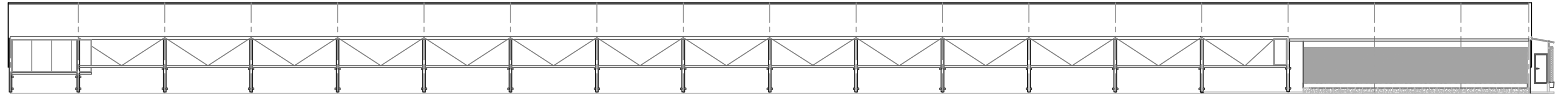
REV#	REVISION DETAILS	DATE
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 12 Craighill Rd, Clare SA 5453  
 T: (08) 8842 3411

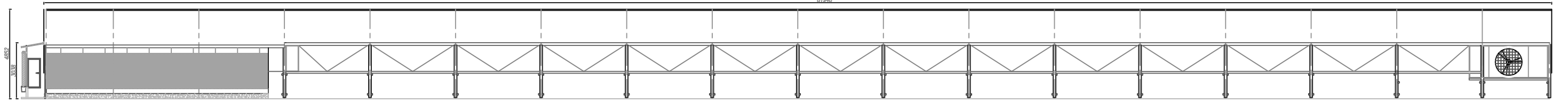
PROJECT <b>BREEDER SHED</b>
FOR <b>STOCKYARDS</b>
LOCATION <b>STRATHANE QLD</b>

**TACK IT  
CHECK IT  
WELD IT**

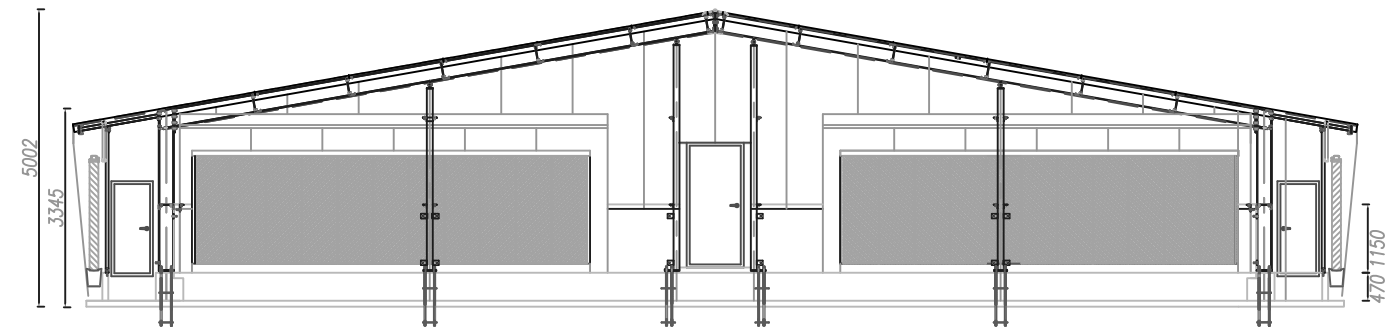
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DRAWN BY <b>BUD</b>	SHEET <b>A3</b>	DATE <b>Mar-21</b>	REVISION <b>0</b>	DRAWING NUMBER <b>1364-B1</b>



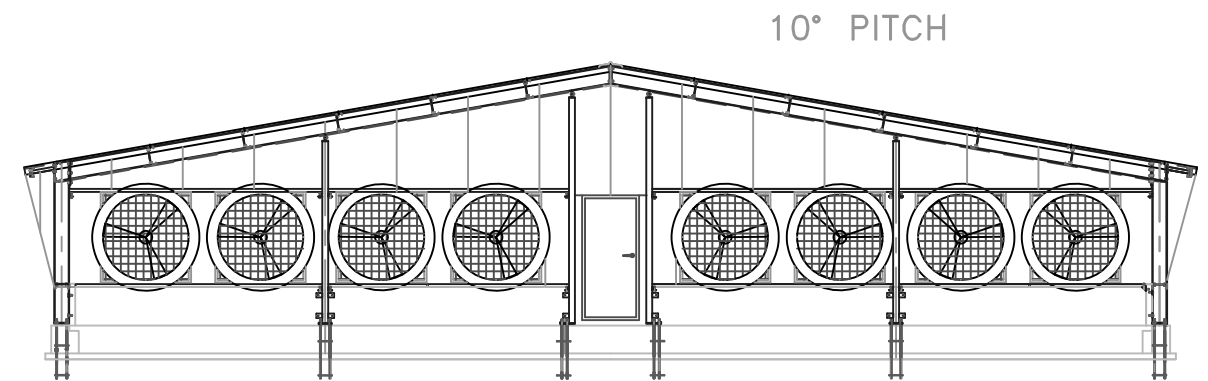
ELEVATION 1



ELEVATION 3



ELEVATION 2



ELEVATION 4

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<b>REV#</b>	<b>REVISION DETAILS</b>	<b>DATE</b>

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---
<b>DATE</b>

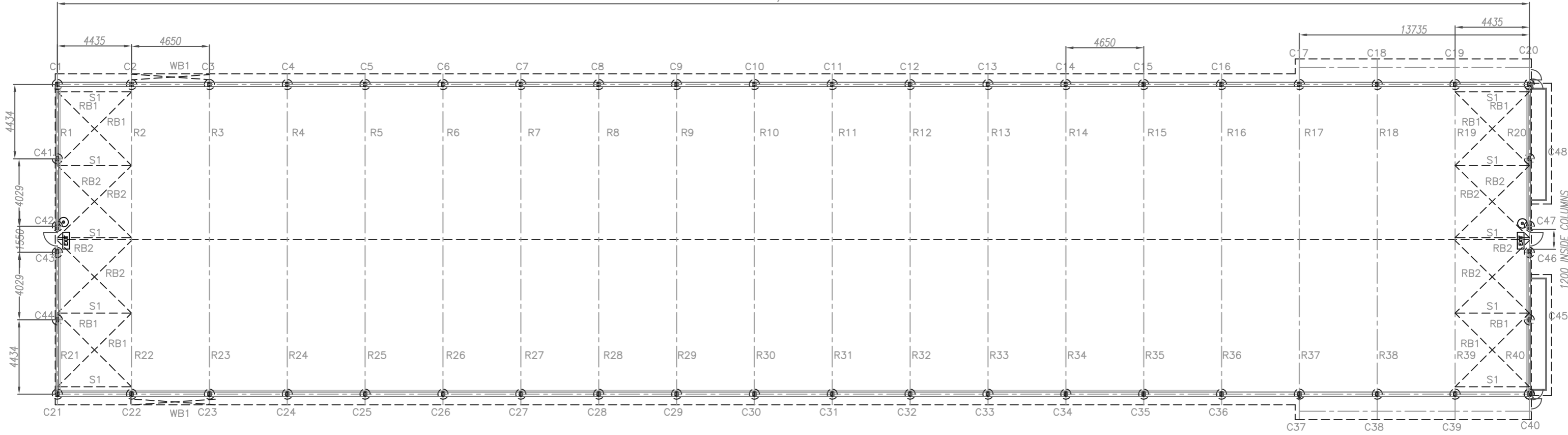
  
 12 Craighill Rd, Clare SA 5453  
 T: (08) 8842 3411

PROJECT <b>DRY SOW SHED</b>
FOR <b>STOCKYARDS</b>
LOCATION <b>STRATHANE QLD</b>

**CHECK IT  
TACK IT  
WELD IT**

CONTENTS		<b>FOOTING PLAN</b>			
DRAWN BY <b>BUD</b>	SHEET <b>A3</b>	DATE <b>Aug-21</b>	REVISION <b>0</b>	DRAWING NUMBER <b>1364-B3</b>	

87920 C/C OF FOOTING



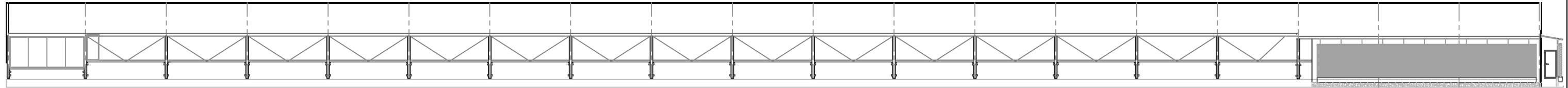
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 12 Craighill Rd, Clare SA 5453  
 T: (08) 8842 3411

PROJECT <b>DRY SOW SHED</b>
FOR <b>STOCKYARDS</b>
LOCATION <b>STRATHANE QLD</b>

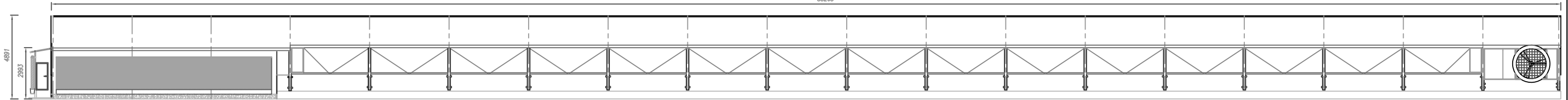
**TACK IT  
CHECK IT  
WELD IT**

CONTENTS					<b>FLOOR PLAN</b>
DRAWN BY <b>BUD</b>	SHEET <b>A3</b>	DATE <b>Mar-21</b>	REVISION <b>0</b>	DRAWING NUMBER <b>1365-B1</b>	

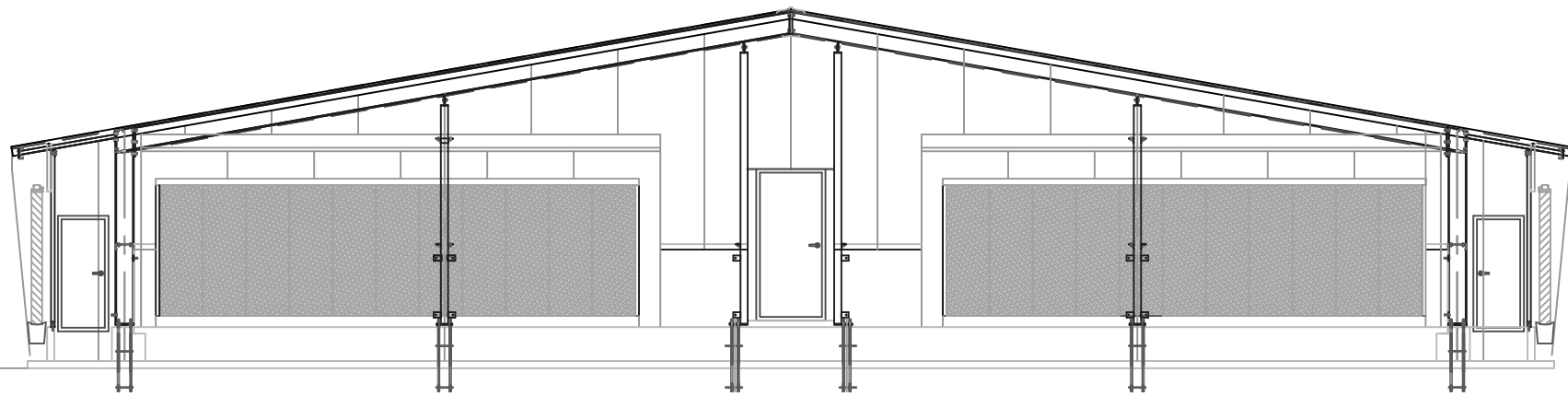


ELEVATION 1

88263

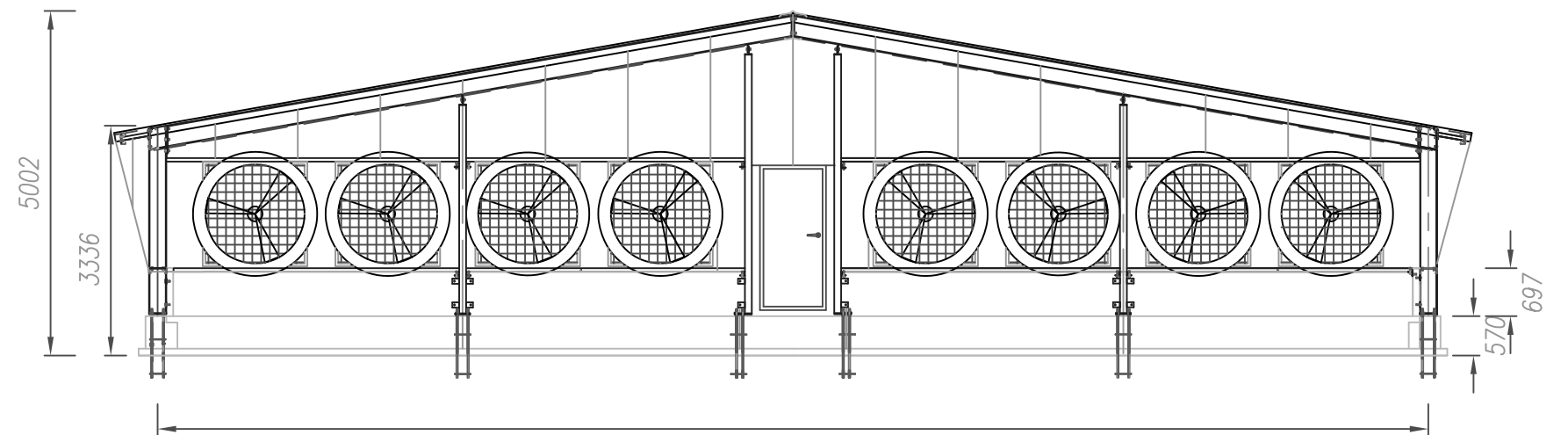


ELEVATION 2



ELEVATION 2

10° PITCH



ELEVATION 4

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<b>REV#</b>	<b>REVISION DETAILS</b>	<b>DATE</b>

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---
<b>DATE</b>

  
 12 Craighill Rd, Clare SA 5453  
 T: (08) 8842 3411

PROJECT <b>DRY SOW SHED</b>
FOR <b>STOCKYARDS</b>
LOCATION <b>STRATHANE QLD</b>

**CHECK IT  
TACK IT  
WELD IT**

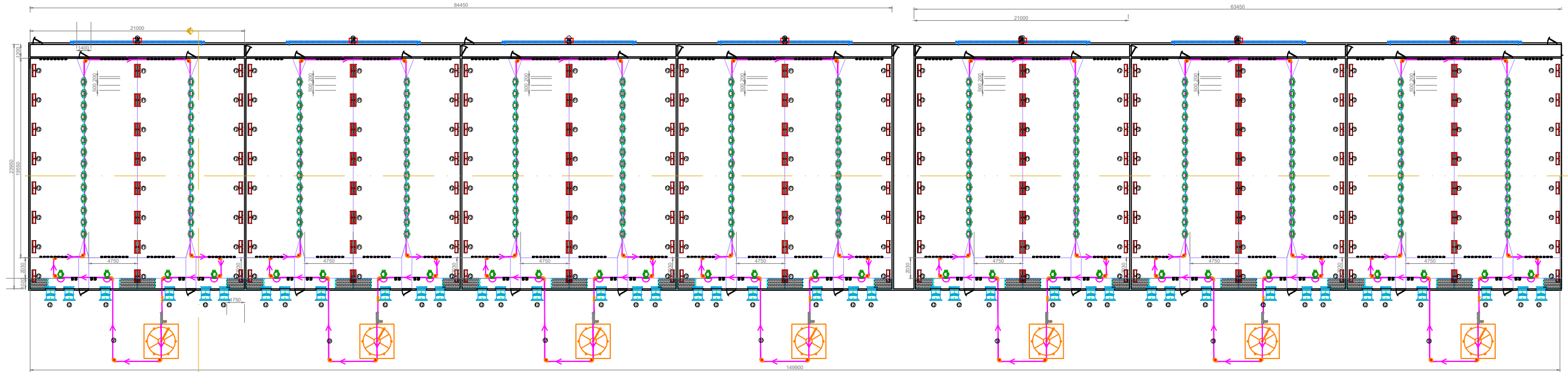
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DRAWN BY <b>BUD</b>	SHEET <b>A3</b>	DATE <b>Sep-21</b>	REVISION <b>0</b>	DRAWING NUMBER <b>1365-B3</b>	

KEY	ITEM	QUANTITY	DESCRIPTION
①	EXHAUST FAN	35	EXHAUST AIR CHIMNEY WALL MOUNTING CL-820-1400 GRAY W/ FAN FF080-6DT(S) 3x400V 50/60HZ 1.85/2.2A
②	EXHAUST FAN	7	EXHAUST AIR CHIMNEY WALL MOUNTING CL-820-1400 GRAY W/ FAN FF080-6ET(S) 1x230V 50/60HZ 4A
③	RAINMAKER	7	PAD 7060 45/15DEG H=1.5M L=12.6M W/ CENTRIFUGAL PUMP EUROSWM 50M 230V 50HZ 4.2A
④	CEILING INLETS	56	CEILING INLET DCI-7300
⑤	CEILING INLETS	112	CEILING INLET SCI-3810
⑥	CURTAIN	7	ROLLING-UP CURTAIN H=1.75M
⑦	BOX HEATER	7	LBW BOX HEATER AD250
⑧	DRY RAPID 1500	7	DRIVE 1.5KW SST DR1500 230/400V 50HZ 3PH
⑨	FEED SENSOR	7	SENSOR 230V
⑩	SILO	7	SILO BD-MAL-M21.8M3 D2750
⑪			
⑫			

NURSERY BUILDING - 1 UNIT  
TOTAL 7 ROOMS  
1260 PIGS PER ROOM  
4 PENS OF 285 PIGS  
PENS ARE 5.25 X 19.55M  
AREA PER PIG = 0.36 M2  
4 PENS OF 30 PIGS  
PENS ARE 4.75 X 2.03M.  
AREA PER PIG = 0.32 M2  
4 SICK PENS  
PENS ARE 4.75 x 1.02M.

NOTE:  
BUILDING IS TOTALLY ENCLOSED

\* QUANTITY FOR 7 ROOMS.



Key	Item	Key	Item
—	WALL	—	FEEDLINE 1
—	PVC 35MM 0.60M HEIGHT	—	DR 1500 DRIVE
—	PVC 35MM 1.0M HEIGHT	—	CORNER
Ⓜ	RAINMAKER 2	Ⓜ	SILO BD-MAL-M21.6CUM
Ⓡ	ROLLING UP CURTAIN	Ⓜ	DRINKING BOWL
ⓔ1	CL-820 (SPEED CONTROL)	Ⓜ	CLIMATE COVER
ⓔ2	CL-820		
ⓕ1	DCI7300 CEILING INLETS		
ⓕ2	SCI3810 CEILING INLETS		
ⓗ	BOX HEATER		

CAMOS CALCULATED VENTILATION:  
VENT SPECS BASED ON FLAT CEILING HEIGHT OF 2.45M.  
110,064 M3PH@50HZ @39.8PA  
AIR EXCHANGE RATE: 94.7/H (ONCE EVERY 38 SEC)

**Attention!**  
- All dimensions have to be checked by the building owner/site supervision responsible.  
- Safety regulations, structural and static characteristics, construction planning, construction work and maintenance of the building have to be verified by the construction supervisor according to national and local building standards and regulations.

- Observe local execution regulations for live stock keeping!  
- Observe the assembly manuals.  
- Complete mounting of the safety devices.  
- Planning of suitable earthing points for the foundation earth electrode.  
- Earthing of the system at suitable places according to the locally valid guidelines and standards (e.g. VDE 0100 part 705).

- Insulation and vapour seal have to be installed according to today's standard.  
- Avoid the installation of constructional obstacles and resistances (profiles, beams, cables, lamps or pipes) in the fresh air flow.  
- The ceiling has to be even and smooth (no joists, Z-profiles etc.).



BD Agriculture (Malaysia) Sdn Bhd  
No.9 Persiaran Astana/KU2, Bandar Bukit Raja 41050 Klang, Selangor.  
Tel: +603 3348 3805 Fax: +603 3348 3828 www.bigdutchman.com

Sales Manager	VIGGO POULSEN	Tel.	
Sales Coordinator		Tel.	
Customer No.	299477-7	Order No. (I)	
Quotation No.		Order No. (II)	
Drawn By	CHUA YI WEN	Date	10Oct2024
Checked By		Date	
Approved By		Date	

CUSTOMER  
KYLES

LOCATION

DESCRIPTION  
NURSERY 7x1260

PROJECT NAME  
NURSERY 7x1260:  
CLIMATE PLAN & FEED PLAN

DRAWING NO.	PROJ. NO	Rev. No.
1		0

**NOT FOR CONSTRUCTION**

SIZE A3 SCALE NTS

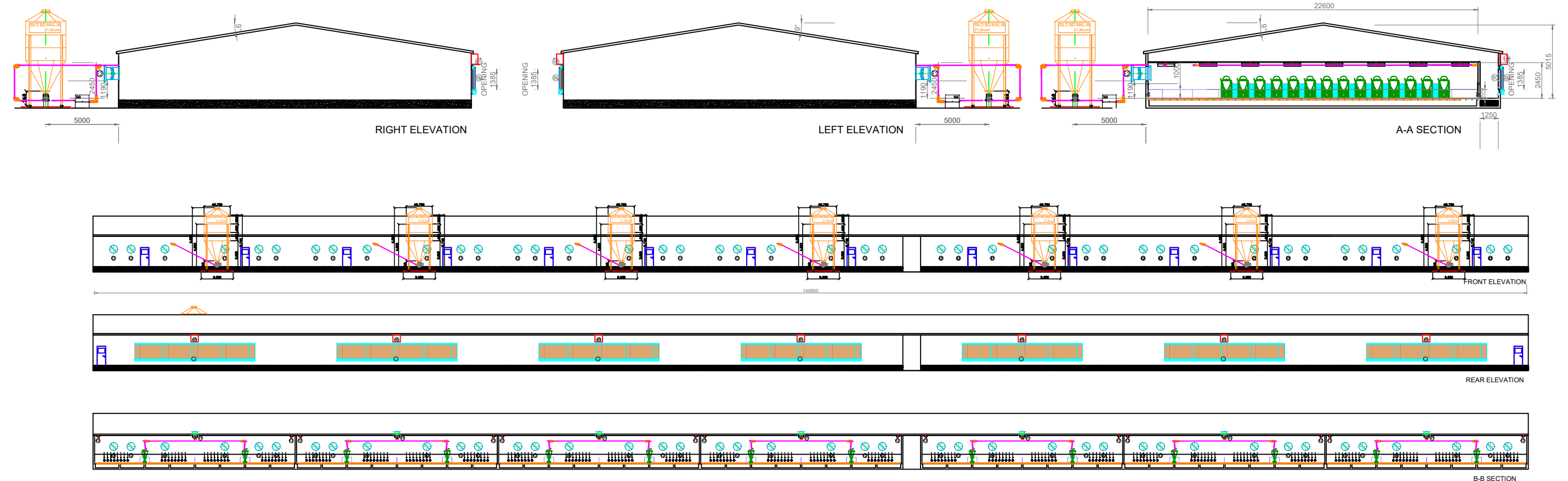
Rev. No.	Instruction by	Revision Record	Date	Name

KEY	ITEM	QUANTITY	DESCRIPTION
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③	RAINMAKER	7	PAD 7060 45/15DEG H=1.5M L=12.6M W/ CENTRIFUGAL PUMP EUROSWM 50M 230V 50HZ 4.2A
④	CEILING INLETS	56	CEILING INLET DCI-7300
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⑥	CURTAIN	7	ROLLING-UP CURTAIN H=1.75M
⑦	BOX HEATER	7	LBW BOX HEATER
⑧	DRY RAPID 1500	7	DRIVE 1.5KW SST DR1500 230/400V 50HZ 3PH
⑨	FEED SENSOR	7	SENSOR 230V
⑩	SILO	7	SILO BD-MAL-M21.8M3 D2750
⑪			
⑫			

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—	PVC 35MM 0.60M HEIGHT	—	DR 1500 DRIVE
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**Attention!**

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- Observe the assembly manuals.
- Complete mounting of the safety devices.
- Planning of suitable earthing points for the foundation earth electrode.
- Earthing of the system at suitable places according to the locally valid guidelines and standards (e.g. VDE 0100 part 705).
- Insulation and vapour seal have to be installed according to today's standard.
- Avoid the installation of constructional obstacles and resistances (profiles, beams, cables, lamps or pipes) in the fresh air flow.
- The ceiling has to be even and smooth (no joists, Z-profiles etc.).

Rev. No.	Instruction by	Revision Record	Date	Name

BD Agriculture (Malaysia) Sdn Bhd  
No.9 Persiaran Astana/KU2, Bandar Bukit Raja 41050 Klang, Selangor.  
Tel: +603 3348 3805 Fax: +603 3348 3828 www.bigdutchman.com

Sales Manager	VIGGO POULSEN	Tel.	
Sales Coordinator		Tel.	
Customer No.		Order No. (I)	
Quotation No.	299477-7	Order No. (II)	
Drawn By	CHUA YI WEN	Date	10Oct2024
Checked By		Date	
Approved By		Date	

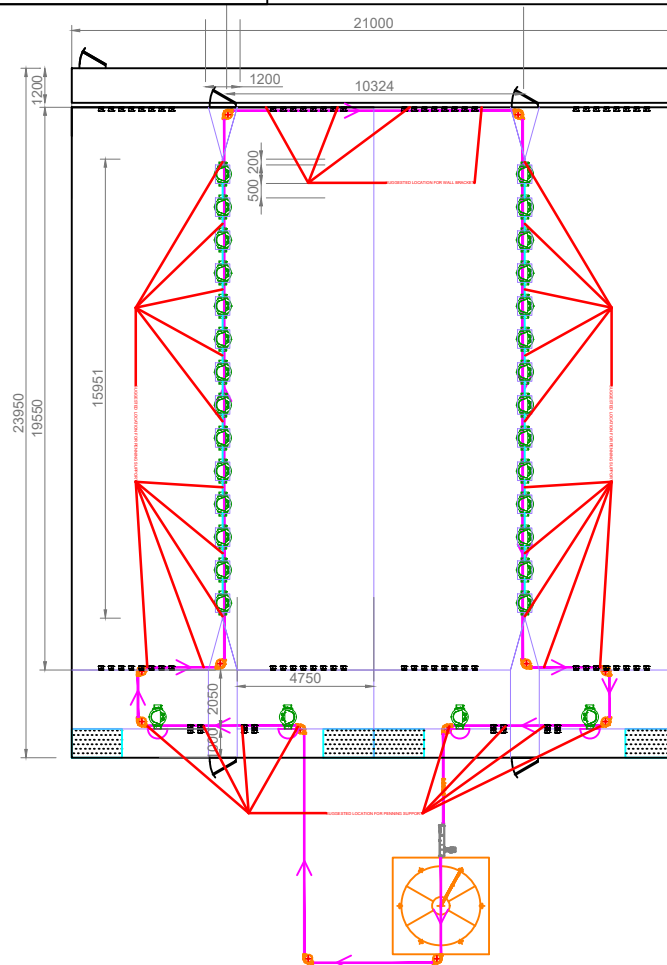
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CUSTOMER		
KYLES		
LOCATION		
DESCRIPTION		
NURSERY 7x1260		
PROJECT NAME		
NURSERY 7x1260: CLIMATE PLAN & FEED PLAN		
DRAWING NO.	PROJ. NO	Rev. No.
1	-	0
<b>NOT FOR CONSTRUCTION</b>		
SIZE A3	SCALE	NTS

KEY	ITEM	QUANTITY	DESCRIPTION
①			
②			
③			
④			
⑤			
⑥			
⑦			
⑧			
⑨			
⑩			
⑪			
⑫			

NURSERY BUILDING – 1 UNIT  
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 PENS ARE 4.75 X 2.03M.  
 AREA PER PIG = 0.32 M2  
 4 SICK PENS  
 PENS ARE 4.75 x 1.02M.

NOTE:  
 BUILDING IS TOTALLY ENCLOSED



- Remarks:
- The suggested spacing of supports must not be wider than a max. of 2.5m
  - the location of the support for feedline is subjected to change according to the building's condition.

**Attention !**

- All dimensions have to be checked by the building owner/site supervision responsible.
- Safety regulations, structural and static characteristics, construction planning, construction work and maintenance of the building have to be verified by the construction supervisor according to national and local building standards and regulations.
- Observe local execution regulations for live stock keeping!

- Observe the assembly manuals.
- Complete mounting of the safety devices.
- Planning of suitable earthing points for the foundation earth electrode.
- Earthing of the system at suitable places according to the locally valid guidelines and standards (e.g. VDE 0100 part 705).
- Insulation and vapour seal have to be installed according to today's standard.
- Avoid the installation of constructional obstacles and resistances (profiles, beams, cables, lamps or pipes) in the fresh air flow.
- The ceiling has to be even and smooth (no joists, Z-profiles etc.).

BD Agriculture (Malaysia) Sdn Bhd  
 No.9 Persiaran Astana/KU2, Bandar Bukit Raja 41050 Klang, Selangor.  
 Tel: +603 3348 3805 Fax: +603 3348 3828 www.bigdutchman.com

Sales Manager	VIGGO POULSEN	Tel.	
Sales Coordinator		Tel.	
Customer No.	299477-7	Order No. (I)	
Quotation No.		Order No. (II)	
Drawn By	CHUA YI WEN	Date	10Oct2024
Checked By		Date	
Approved By		Date	

CUSTOMER	KYLES		
LOCATION			
DESCRIPTION	NURSERY 7x1260		
PROJECT NAME	NURSERY 7x1260: CLIMATE PLAN & FEED PLAN		
DRAWING NO.	PROJ. NO	Rev. No.	
1	-	0	

Rev. No.	Instruction by	Revision Record	Date	Name

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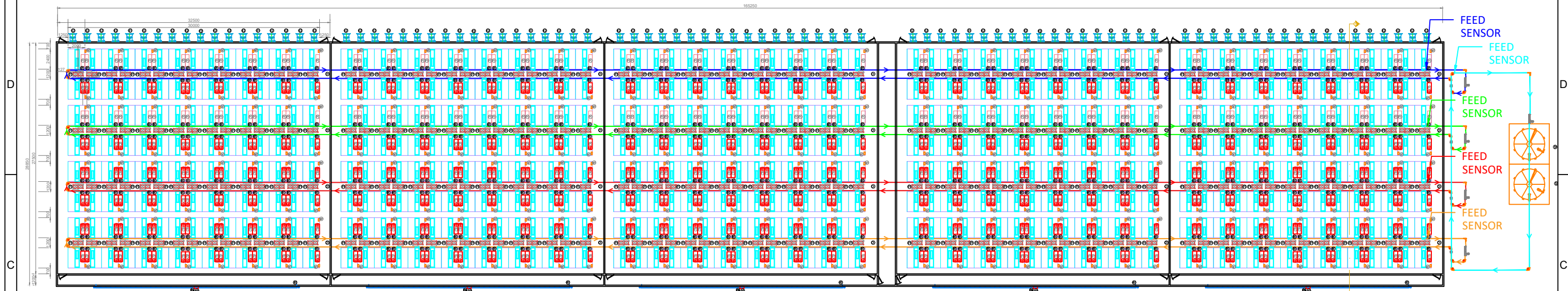
**NOT FOR CONSTRUCTION**  
 SIZE A3 SCALE NTS

KEY	ITEM	QUANTITY	DESCRIPTION
①	EXHAUST FAN	80	EXHAUST AIR CHIMNEY WALL MOUNTING CL-600-1100 GRAY W/ FAN FF063-6DT(S) 3x400V 50/60HZ 1.3/1.5A
②	EXHAUST FAN	10	EXHAUST AIR CHIMNEY WALL MOUNTING CL-600-1100 GRAY W/ FAN Fan FF063-6ET(S) 1x230V 50/60Hz 2.5/3.3A f/tube
③	RAINMAKER	5	PAD 7060 45/15DEG H=1.5M L=24.0M W/ CENTRIFUGAL PUMP EUROSWM 100M 230V 50HZ 6.3A
④	CEILING INLETS	600	CEILING INLET CI-1540
⑤	CURTAIN	5	ROLLING-UP CURTAIN H=1.75M
⑥	BOX HEATER	5	LBW BOX HEATER 100
⑦	DRY RAPID 1500	5	DRIVE 1.5KW SST DR1500-XXL 230/400V 50HZ 3PH
⑧	FEED SENSOR	5	SENSOR 10-30V AC/DC
⑨	SILO	2	SILO BD-MAL-M32.6M3 D3660
⑩			
⑪			
⑫			

FARROWING BUILDING - 1 UNIT  
TOTAL 5 ROOMS  
120 PIGS PER ROOM  
8 ROWS OF 15 PENS  
PENS ARE 2.0 X 2.4M

NOTE:  
BUILDING IS TOTALLY ENCLOSED

\* QUANTITY FOR 5 ROOMS.



Key	Item	Key	Item
—	WALL	—	FEEDLINE 1
—	PVC 35MM 0.50M HEIGHT	—	FEEDLINE 2
—	PVC 35MM 0.5M HEIGHT + GRID PENNING ON TOP	—	FEEDLINE 3
Ⓜ	RAINMAKER 2	—	FEEDLINE 4
Ⓡ	ROLLING UP CURTAIN	—	FEEDLINE 5
ⓔ	CL-600 (SPEED CONTROL)	Ⓜ	DR 1500 DRIVE
ⓔ	CL-600	Ⓡ	CORNER
ⓕ	CL1540 CEILING INLETS	Ⓜ	SILO BD-MAL-M32.6CUM
ⓗ	BOX HEATER	Ⓡ	DRINKING BOWL
Ⓟ	PIGLET COVER		
ⓗ	HEATING PLATE 1200x500		
Ⓢ	SWITCH BOX 5.50KW		

CAMOS CALCULATED VENTILATION:  
VENT SPECS BASED ON FLAT CEILING HEIGHT OF 2.45M.  
196,122 M3PH@50HZ @39PA  
AIR EXCHANGE RATE: 90/H (ONCE EVERY 40 SEC)

Rev. No.	Instruction by	Revision Record	Date	Name

**Attention!**

- All dimensions have to be checked by the building owner/site supervision responsible.
- Safety regulations, structural and static characteristics, construction planning, construction work and maintenance of the building have to be verified by the construction supervisor according to national and local building standards and regulations.
- Observe local execution regulations for live stock keeping!
- Observe the assembly manuals.
- Complete mounting of the safety devices.
- Planning of suitable earthing points for the foundation earth electrode.
- Earthing of the system at suitable places according to the locally valid guidelines and standards (e.g. VDE 0100 part 705).
- Insulation and vapour seal have to be installed according to today's standard.
- Avoid the installation of constructional obstacles and resistances (profiles, beams, cables, lamps or pipes) in the fresh air flow.
- The ceiling has to be even and smooth (no joists, Z-profiles etc.).

BD AGRICULTURE (AUSTRALIA) PTY. LTD. ABN: 41 612 865  
TOOWOOMBA OFFICE: 2B, 7-9 Gardner Court, Wilsonton, QLD 4350, Australia  
BENDIGO OFFICE: 14 Altonvale Court, East Bendigo, VIC 3550, Australia  
CLIFTON OFFICE: 7 Centenary Road, Clifton, QLD 4361, Australia  
E-Mail: bdaustralia@bigdutchman.com  
Internet: www.bigdutchman.com

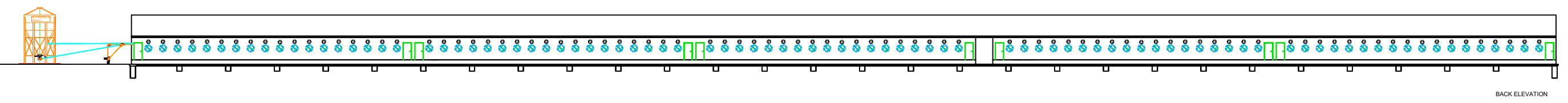
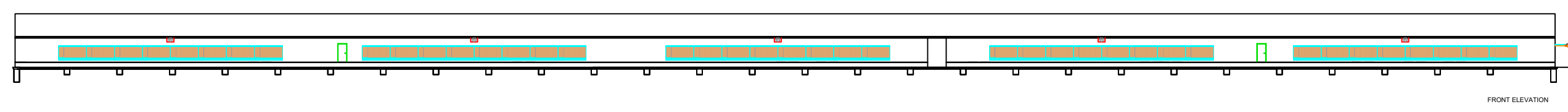
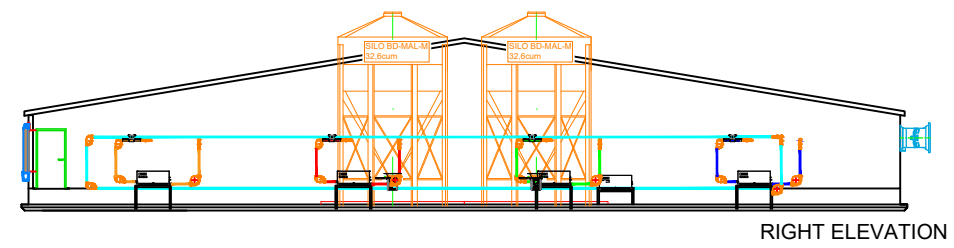
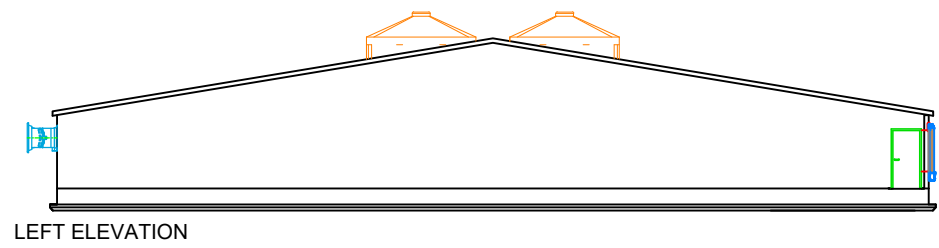
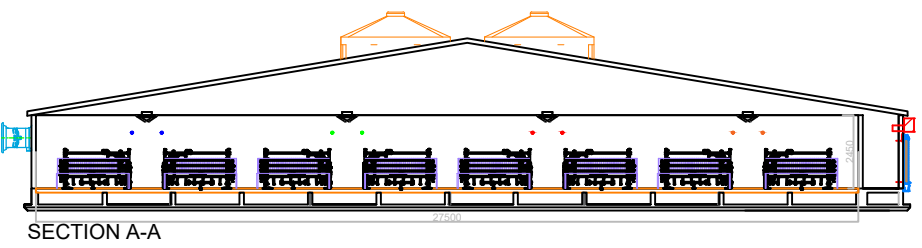
CUSTOMER		KYLES	
LOCATION			
DESCRIPTION		FARROWING 5X120	
PROJECT NAME		FARROWING 5X120: CLIMATE PLAN & FEED PLAN	
DRAWING NO.	PROJ. NO	Rev. No.	
1	-	0	
<b>NOT FOR CONSTRUCTION</b>			
SIZE	A3	SCALE	NTS

KEY	ITEM	QUANTITY	DESCRIPTION
①	EXHAUST FAN	80	EXHAUST AIR CHIMNEY WALL MOUNTING CL-600-1100 GRAY W/ FAN FF063-6DT(S) 3x400V 50/60HZ 1.3/1.5A
②	EXHAUST FAN	10	EXHAUST AIR CHIMNEY WALL MOUNTING CL-600-1100 GRAY W/ FAN Fan FF063-6ET(S) 1x230V 50/60HZ 2.5/3.3A f/tube
③	RAINMAKER	5	PAD 7060 45/15DEG H=1.5M L=24.0M W/ CENTRIFUGAL PUMP EUROSWM 100M 230V 50HZ 6.3A
④	CEILING INLETS	600	CEILING INLET CI-1540
⑤	CURTAIN	5	ROLLING-UP CURTAIN H=1.75M
⑥	BOX HEATER	5	LBW BOX HEATER 100
⑦	DRY RAPID 1500	5	DRIVE 1.5KW SST DR1500-XXL 230/400V 50HZ 3PH
⑧	FEED SENSOR	5	SENSOR 10-30V AC/DC
⑨	SILO	2	SILO BD-MAL-M32.6M3 D3660
⑩			
⑪			
⑫			

FARROWING BUILDING - 1 UNIT  
TOTAL 5 ROOMS  
120 PIGS PER ROOM  
8 ROWS OF 15 PENS  
PENS ARE 2.0 X 2.4M

NOTE:  
BUILDING IS TOTALLY ENCLOSED

\* QUANTITY FOR 5 ROOMS.



Key	Item	Key	Item
—	WALL	—	FEEDLINE 1
—	PVC 35MM 0.50M HEIGHT	—	FEEDLINE 2
—	PVC 35MM 0.5M HEIGHT + GRID PENNING ON TOP	—	FEEDLINE 3
RM	RAINMAKER 2	—	FEEDLINE 4
R1	ROLLING UP CURTAIN	—	FEEDLINE 5
E1	CL-600 (SPEED CONTROL)	DR	DR 1500 DRIVE
E2	CL-600	CORNER	CORNER
F1	CL1540 CEILING INLETS	S1	SILO BD-MAL-M32.6CUM
H1	BOX HEATER	B1	DRINKING BOWL
P1	PIGLET COVER		
HP	HEATING PLATE 1200x500		
C1	SWITCH BOX 5.50KW		

CAMOS CALCULATED VENTILATION:  
VENT SPECS BASED ON FLAT CEILING HEIGHT OF 2.45M.  
196,122 M3PH@50HZ @39PA  
AIR EXCHANGE RATE: 90/H (ONCE EVERY 40 SEC)

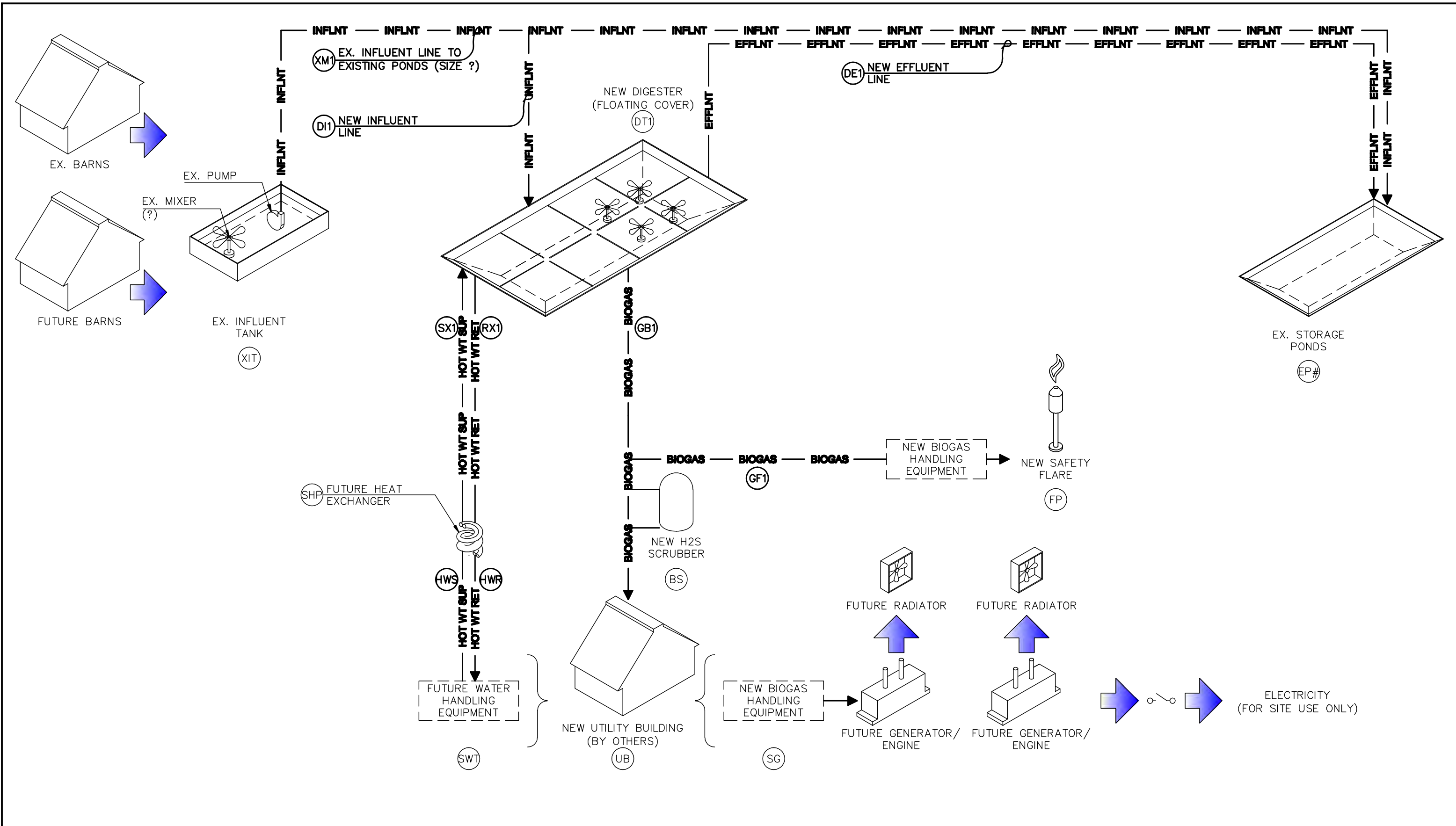
Rev. No.	Instruction by	Revision Record	Date	Name

BD AGRICULTURE (AUSTRALIA) PTY. LTD. ABN: 41 612 865  
TOOWOOMBA OFFICE: 2B, 7-9 Gardner Court, Wilsonton, QLD 4350, Australia  
BENDIGO OFFICE: 14 Alstonvale Court, East Bendigo, VIC 3550, Australia  
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E-Mail: bdaustralia@bigdutchman.com  
Internet: www.bigdutchman.com

Sales Manager	VIGGO POULSEN	Tel.	
Sales Coordinator		Tel.	
Customer No.		Order No. (I)	
Quotation No.	306023-5	Order No. (II)	
Drawn By	CHUA YI WEN	Date	16JAN 2026
Checked By		Date	
Approved By		Date	

CUSTOMER		
KYLES		
LOCATION		
DESCRIPTION		
FARROWING 5X120		
PROJECT NAME		
FARROWING 5X120: ELEVATION VIEW		
DRAWING NO.	PROJ. NO	Rev. No.
1	-	0
<b>NOT FOR CONSTRUCTION</b>		
SIZE A3	SCALE	NTS

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DATE: Apr/17/2023

SCALE: AS NOTED

DRAWN BY: DP

CHECKED BY: DP



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PROJECT DESIGNED FOR:  
CEFN (WEYMO)  
4788 TEXAS-YELARBON RD.  
YELARBON, QLD 4385  
AU

ISSUED FOR CONSTRUCTION

ANAEROBIC DIGESTER CIVIL SET  
PROCESS FLOW DIAGRAM

SHEET NUMBER:  
C.PFD

REVISION: 1  
REV. DATE: 04/25/23



SCL K07 / K08 / K09 / K10 / K11 / K12

MS SERIES

SN1805-188 1/2

TECHNICAL CHARACTERISTICS

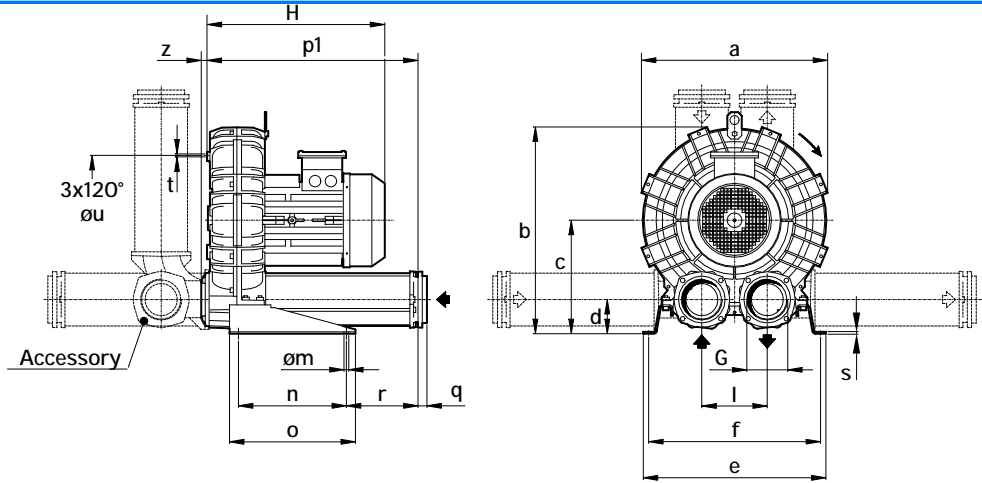
- Aluminium alloy construction
- Smooth operation
- High efficiency impeller
- Maintenance free
- Mountable in any position
- Recognized TEFC - cURus motor

OPTIONS

- Special voltages (IEC 38)
- Surface treatments

ACCESSORIES

- Inlet and/or inline filters
- Additional inlet/outlet silencers
- Safety valves
- Flow converting device
- Optional connectors



Dimensions in inches.  
Dimension for reference only.

Model	a	b	c	d	e	f	G	l	m	n	o	p1	q	r	s	t	u	z
K07-MS	16.69	18.84	10.59	3.23	18.43	17.24	3" NPT	6.10	0.51	11.81	13.78	20.16	0.98	5.39	0.20	M8	11.61	0.63
K08-MS	17.99	19.61	10.59	3.23	18.82	17.64	3" NPT	6.10	0.51	11.81	13.78	20.16	0.98	5.39	0.20	M8	12.2	0.63
K09-MS	19.37	22.09	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	23.07	0.98	7.83	0.20	M8	14.17	0.63
K10-MS	20.31	22.56	12.40	3.78	20.00	18.82	4" NPT	7.17	0.51	11.81	13.78	23.07	0.98	7.83	0.20	M8	14.17	0.63
K11-MS	21.34	23.74	13.07	3.58	21.26	20.00	4" NPT	7.87	0.51	11.81	13.78	23.46	0.98	8.03	0.20	M8	15.35	0.63
K12-MS	21.57	23.82	13.07	3.58	21.26	20.00	4" NPT	7.87	0.51	11.81	13.78	23.58	0.98	8.03	0.20	M8	15.35	0.51

Model	Maximum flow Scfm		Installed power Hp		Maximum differential pressure Δp (In WG)		Noise level Lp d B (A) <sup>(1)</sup>		Overall dimensions H	Weight
	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz		
	3500 rpm	2900 rpm	3500 rpm	2900 rpm	3500 rpm	2900 rpm	3500 rpm	2900 rpm	Inches	Lbs
K07-MS	294	243	4	4	50	80	78.7	76.7	15.6	116.2
			5 1/2	5 1/2	80	110	79.0	77.0	16.3	119.0
			7 1/2	7 1/2	121	141	79.3	77.3	18.4	160.5
			10	10	171	-	79.6	77.6	19.1	172.6
K08-MS	381	316	5 1/2	5 1/2	40	70	79.7	77.7	16.3	124.8
			7 1/2	7 1/2	70	100	80.0	78.0	18.4	166.5
			10	10	111	141	80.3	78.3	19.1	179.0
			15	15	171	171	80.6	78.6	19.1	192.0
K09-MS	471	390	7 1/2	7 1/2	50	80	80.2	78.2	18.8	186.3
			10	10	80	120	80.5	78.5	19.5	199.0
			15	15	141	171	81.0	79.0	19.6	212.0
			20	20	171	-	81.3	79.3	22.0	245.0
K10-MS	556	460	7 1/2	7 1/2	30	60	80.1	78.1	18.8	189.6
			10	10	50	90	80.5	78.5	19.5	202.0
			15	15	111	141	81.0	79.0	19.6	215.0
			20	20	161	171	81.4	79.4	22.0	248.0
			25	25	201	-	81.6	79.6	24.0	322.0
K11-MS	650	539	15	15	70	110	82.4	80.4	19.8	226.0
			20	20	121	160	82.7	80.7	22.5	259.0
			25	25	151	181	85.6	83.6	24.0	333.0
K12-MS	726	602	15	15	50	90	82.9	80.9	19.9	229.5
			20	20	90	130	83.2	81.2	22.5	263.0
			25	25	121	161	86.1	84.1	24.0	337.0

(1) Noise measured at 1 m distance with inlet and outlet ports piped, in accordance to ISO 3744.

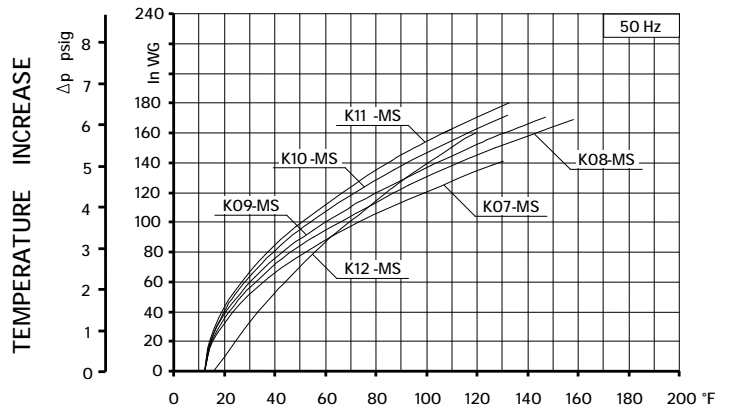
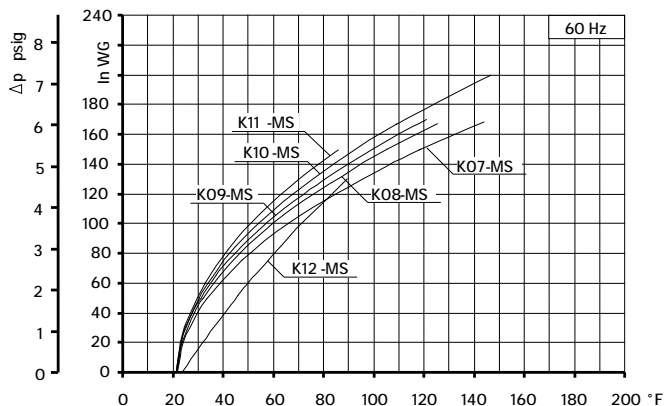
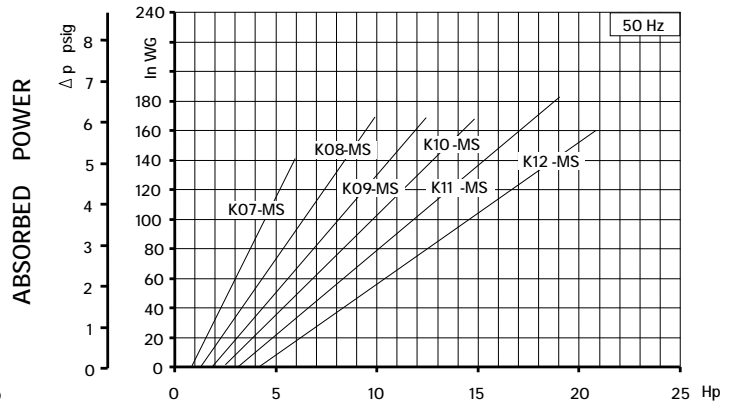
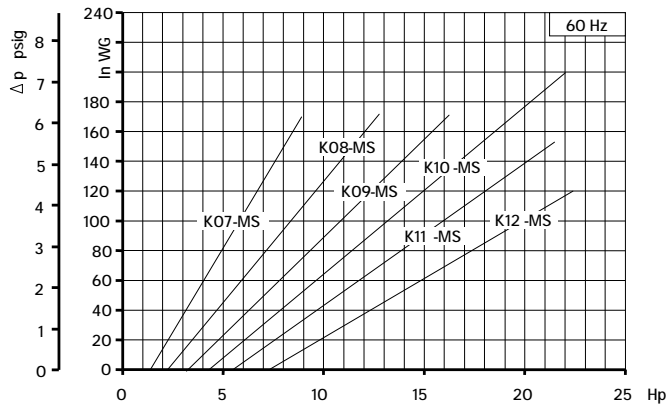
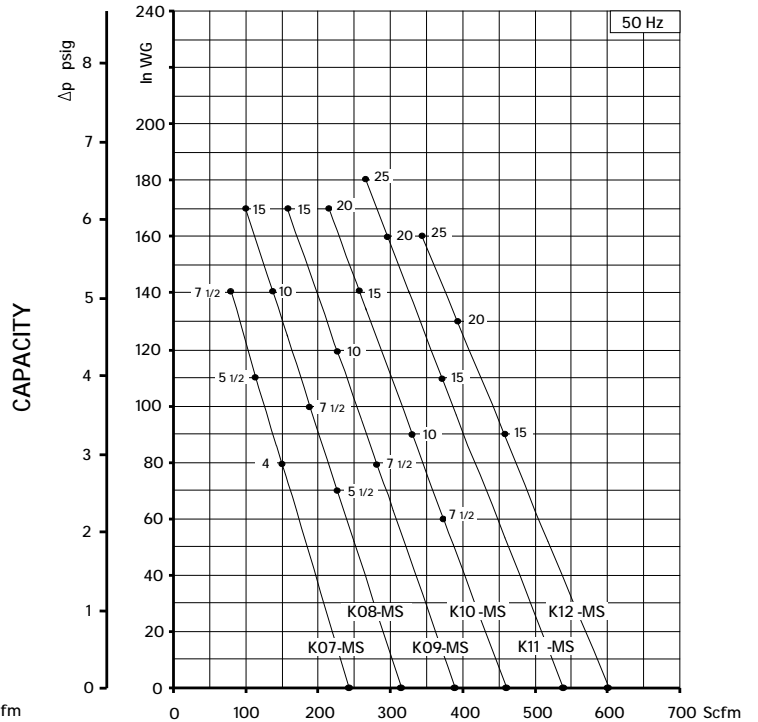
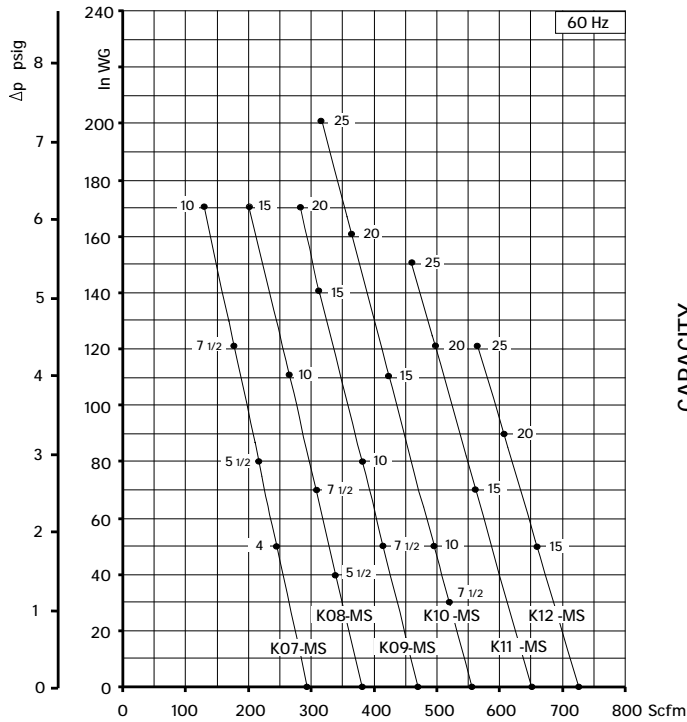
- For proper use, the blower should be equipped with inlet filter and safety valve; other accessories available on request.
- Ambient temperature from +5° to +104°F.
- Specifications subject to change without notice.



SCL K07 / K08 / K09 / K10 / K11 / K12

MS SERIES

SN1805-18B 2/2



Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.  
 Values for flow, power consumption and temperature rise: +/- 10% tolerance.  
 Data subject to change without notice.



SCL K07-MS-MOR																													
Vacuum			2000			2250			2500			2750			2900			3250			3500			3750			4000		
	dp [mbar]	dp [inWG]	Q [cfm]	Pow [hp]	E.M. [hp]	Q [cfm]	Pow [hp]	E.M. [hp]	Q [cfm]	Pow [hp]	E.M. [hp]	Q [cfm]	Pow [hp]	E.M. [hp]	Q [cfm]	Pow [hp]	E.M. [hp]	Q [cfm]	Pow [hp]	E.M. [hp]	Q [cfm]	Pow [hp]	E.M. [hp]	Q [cfm]	Pow [hp]	E.M. [hp]	Q [cfm]	Pow [hp]	E.M. [hp]
350	140	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	95	7.71	10.00	137	8.49	10.00	176	9.33	10.00
325	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	114	7.26	10.00	154	8.02	10.00	190	8.82	10.00
300	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	132	6.82	7.50	170	7.54	10.00	204	8.31	10.00
275	110	-	-	-	-	-	-	-	-	-	-	-	-	68	4.91	5.50	126	5.74	7.50	149	6.37	7.50	185	7.06	7.50	218	7.80	10.00	
250	100	-	-	-	-	-	-	-	-	-	-	-	-	88	4.54	5.50	142	5.32	7.50	166	5.93	7.50	200	6.59	7.50	231	7.29	10.00	
225	90	-	-	-	-	-	-	-	-	-	84	3.87	5.50	108	4.17	5.50	158	4.91	5.50	182	5.48	7.50	214	6.11	7.50	244	6.79	7.50	
200	80	-	-	-	-	-	-	-	-	-	104	3.52	5.50	126	3.79	4.00	173	4.49	5.50	197	5.04	7.50	227	5.63	7.50	256	6.28	7.50	
175	70	-	-	-	-	-	-	86	2.77	4.00	124	3.17	4.00	144	3.42	4.00	188	4.08	5.50	212	4.59	5.50	240	5.16	5.50	267	5.77	7.50	
150	60	-	-	-	69	2.11	4.00	108	2.45	4.00	142	2.82	4.00	161	3.05	4.00	202	3.66	4.00	225	4.15	5.50	252	4.68	5.50	278	5.26	7.50	
125	50	54	1.55	4.00	94	1.83	4.00	128	2.13	4.00	159	2.47	4.00	177	2.69	4.00	215	3.25	4.00	238	3.70	4.00	264	4.20	5.50	289	4.75	5.50	
100	40	82	1.29	4.00	117	1.54	4.00	147	1.81	4.00	176	2.12	4.00	192	2.32	4.00	228	2.84	4.00	251	3.26	4.00	275	3.72	4.00	299	4.24	5.50	
75	30	107	1.04	4.00	137	1.25	4.00	165	1.49	4.00	191	1.77	4.00	206	1.95	4.00	240	2.42	4.00	263	2.81	4.00	286	3.25	4.00	309	3.73	4.00	
50	20	130	0.78	4.00	156	0.97	4.00	181	1.17	4.00	205	1.42	4.00	219	1.58	4.00	251	2.01	4.00	274	2.37	4.00	296	2.77	4.00	318	3.22	4.00	
25	10	150	0.53	4.00	173	0.68	4.00	196	0.86	4.00	218	1.07	4.00	232	1.21	4.00	262	1.60	4.00	284	1.92	4.00	305	2.29	4.00	327	2.71	4.00	
0	0	168	0.28	4.00	188	0.39	4.00	209	0.54	4.00	230	0.72	4.00	243	0.84	4.00	272	1.19	4.00	293	1.47	4.00	314	1.81	4.00	335	2.20	4.00	

Curves refer to air at 68°F temperature, measured at inlet port and 29.92 In Hg atmospheric backpressure (abs)  
 Values for flow and power consumption: +/-10% tolerance.  
 Data subject to change without notice.



SCL K07-MS-MOR																														
		2000			2250			2500			2750			2900			3250			3500			3750			4000				
Pressure	dp	dp	Q	Pow	E.M.	Q	Pow	E.M.	Q	Pow	E.M.	Q	Pow	E.M.	Q	Pow	E.M.	Q	Pow	E.M.	Q	Pow	E.M.	Q	Pow	E.M.	Q	Pow	E.M.	
	[mbar]	[inWG]	[cfm]	[hp]	[hp]	[cfm]	[hp]	[hp]	[cfm]	[hp]	[hp]	[cfm]	[hp]	[hp]	[cfm]	[hp]	[hp]	[cfm]	[hp]	[hp]	[cfm]	[hp]	[hp]	[cfm]	[hp]	[hp]	[cfm]	[hp]	[hp]	
	425	170	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	129	9.05	10.00	-	-	-	-	-	-
	400	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	139	8.60	10.00	170	9.45	10.00	-	-	-
	375	150	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	149	8.16	10.00	179	8.98	10.00	-	-	-
	350	140	-	-	-	-	-	-	-	-	-	-	-	-	80	6.01	7.50	127	6.98	7.50	158	7.71	10.00	188	8.50	10.00	217	9.33	10.00	
	325	130	-	-	-	-	-	-	-	-	-	-	-	-	91	5.64	7.50	137	6.56	7.50	168	7.27	10.00	197	8.02	10.00	225	8.82	10.00	
	300	120	-	-	-	-	-	-	-	-	-	-	-	-	103	5.27	7.50	148	6.15	7.50	178	6.82	7.50	206	7.54	10.00	234	8.31	10.00	
	275	110	-	-	-	-	-	-	-	-	-	95	4.57	5.50	115	4.90	5.50	158	5.74	7.50	187	6.38	7.50	215	7.07	7.50	242	7.81	10.00	
	250	100	-	-	-	-	-	-	-	-	-	107	4.22	5.50	126	4.53	5.50	168	5.32	7.50	197	5.93	7.50	224	6.59	7.50	251	7.30	10.00	
	225	90	-	-	-	-	-	-	88	3.40	5.50	120	3.87	5.50	138	4.16	5.50	179	4.91	5.50	207	5.49	7.50	233	6.11	7.50	259	6.79	7.50	
	200	80	-	-	-	-	-	-	101	3.09	5.50	132	3.52	5.50	150	3.79	4.00	189	4.49	5.50	216	5.04	5.50	242	5.63	7.50	268	6.28	7.50	
	175	70	-	-	-	83	2.40	5.50	115	2.77	4.00	144	3.17	4.00	162	3.43	4.00	200	4.08	5.50	226	4.59	5.50	251	5.16	5.50	276	5.77	7.50	
	150	60	66	1.80	4.00	98	2.11	4.00	128	2.45	4.00	157	2.82	4.00	173	3.06	4.00	210	3.67	4.00	236	4.15	5.50	260	4.68	5.50	285	5.26	7.50	
	125	50	83	1.55	4.00	113	1.83	4.00	142	2.13	4.00	169	2.47	4.00	185	2.69	4.00	221	3.25	4.00	245	3.70	4.00	269	4.20	5.50	293	4.75	5.50	
	100	40	100	1.29	4.00	129	1.54	4.00	156	1.81	4.00	182	2.12	4.00	197	2.32	4.00	231	2.84	4.00	255	3.26	4.00	279	3.72	4.00	302	4.24	5.50	
	75	30	117	1.04	4.00	144	1.25	4.00	169	1.49	4.00	194	1.77	4.00	208	1.95	4.00	242	2.42	4.00	265	2.81	4.00	288	3.25	4.00	310	3.73	4.00	
	50	20	134	0.78	4.00	159	0.97	4.00	183	1.18	4.00	206	1.42	4.00	220	1.58	4.00	252	2.01	4.00	274	2.37	4.00	297	2.77	4.00	319	3.22	4.00	
	25	10	151	0.53	4.00	174	0.68	4.00	196	0.86	4.00	219	1.07	4.00	232	1.21	4.00	263	1.60	4.00	284	1.92	4.00	306	2.29	4.00	327	2.71	4.00	
	0	0	168	0.28	4.00	189	0.39	4.00	210	0.54	4.00	231	0.72	4.00	244	0.84	4.00	273	1.18	4.00	294	1.47	4.00	315	1.81	4.00	336	2.20	4.00	

Curves refer to air at 68°F temperature and 29.92 In Hg atmospheric pressure (abs) measured at inlet port.  
 Values for flow and power consumption: +/-10% tolerance.  
 Data subject to change without notice.

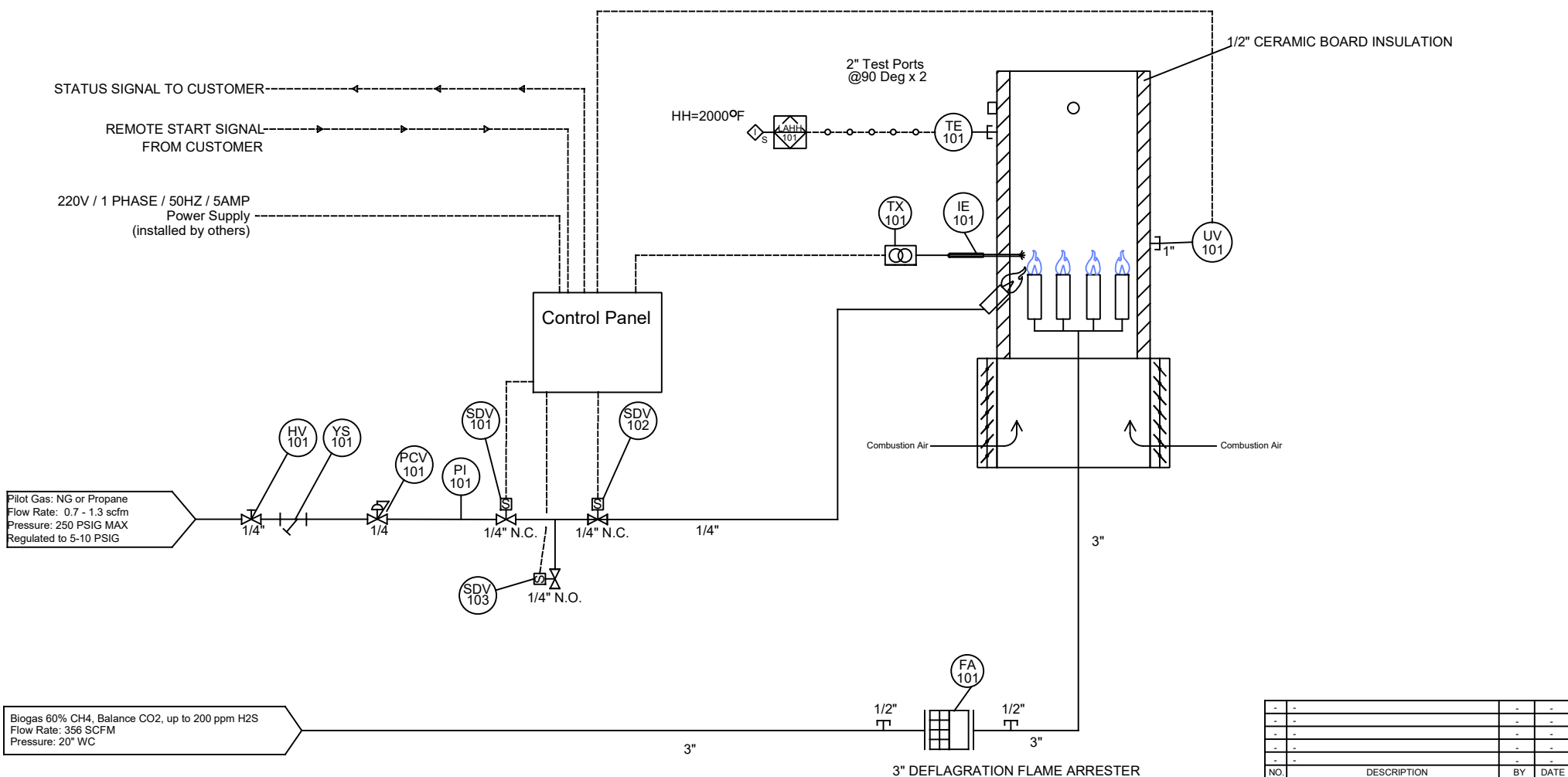
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## 3.3. Flare Specifications

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Project #23346		Project Name: V1-70 Martin Energy AGA APPLICATION					
QTY	P&ID Item Identification	Pipe Size	Range/Setpoint	Description	Notes:	Mfr.	Model
1	HV-101	1/4" NPT	N/A	HAND VALVE	FLOTITE 1/4IN T80-SS TWO PIECE FULL PORT BALL VALVE, 316SS BODY & TRIM, PTFE SEATS & SEALS, 1000 WOG RATED, NPT END CONNECTIONS, LOCKING LEVER OPERATED	Flotite or Equal	1/4 T80
1	YS-101	1/4" NPT	N/A	Y-STRAINER	316SS Y-STRAINER, 40 MESH SIZE, SCREEN 304SS, 1400 PSI RATED	SCSC INC/ OR EQUAL	SC00258108AS
1	PCV-101 / PI-101	1/4"NPT	0-60 PSIG	PRESSURE REGULATOR w/ PRESSURE GAUGE	1/4" NPT; 0-60 PSI Spring Range' Square Head Adjustment Screw; Pressure Gauge Port, 0-60 PSIG PRESSURE GAUGE	BMD	RG30-2G
2	SDV-101 & 102	1/4" NPT	N/A	PILOT SOLENOID SHUTDOWN VALVE	GC 2-Way SS 1/4" 240 AC 50 HZ NC Solenoid GC S30 Series / 1/4" NPT / Stainless Steel / Normally Closed / Teflon / 240 AC 50 HZ / Explosion Proof	GC VALVES	GC S301XF04T3BD7
1	SV-103	1/4" NPT	N/A	PILOT SOLENOID BLEED VALVE	GC 2-Way SS 1/4" 240 AC NO Solenoid GC S30 Series / 1/4" NPT / Stainless Steel / Normally Open / Teflon / 240 AC 50HZ / Explosion Proof	GC VALVES	GC S302XF04T3BD7
1	FA-101	3" ANSI 150	N/A	FLAME ARRESTER	3" 150# ANSI RF Group D Deflagration Flame Arrester Plated Carbon Steel Body & 304SS Element	Ehrlich	SICH3
1	TX-101	N/A	N/A	Ignition Transformer	Enclosed Ignition Transformer, 230v 50Hz, 7.5kV, 100% duty cycle, IP54 Enclosure	Khromschroder	TGI 7.5-12/100W
1	IE/FR-101	N/A	N/A	Ignition Electrode / Flame Rod	Electrode 10" Porcelain x 24" Rod / 34L	PROFIRE	ELE006WAW
1	TE-101	3/4" NPT	N/A	TYPE K THERMOCOUPLE	THERMOCOUPLE Dual Process Connection Type K 3/8" Bore w/ Thermowell 3/4" NPT x 11.5" 316SS	PROFIRE/ OR EQUAL	TC0038WLA
1	UV-101	N/A	N/A	UV SCANNER	SELF CHECK UV DETECTOR	SIEMENS	LMV5
1	BMS-101	N/A	N/A	SIEMENS BURNER CONTROLLER	LME75 BURNER CONTROLLER	SIEMENS	LME75



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-	-	-	-
NO.	DESCRIPTION	BY	DATE

**P&ID**  
V1-70 Enclosed Combustor (AGA)  
**Project 23346**

SHEET <u>1</u> OF <u>1</u>	REVISION NO. <u>0</u>
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## **Sequence of Operation**

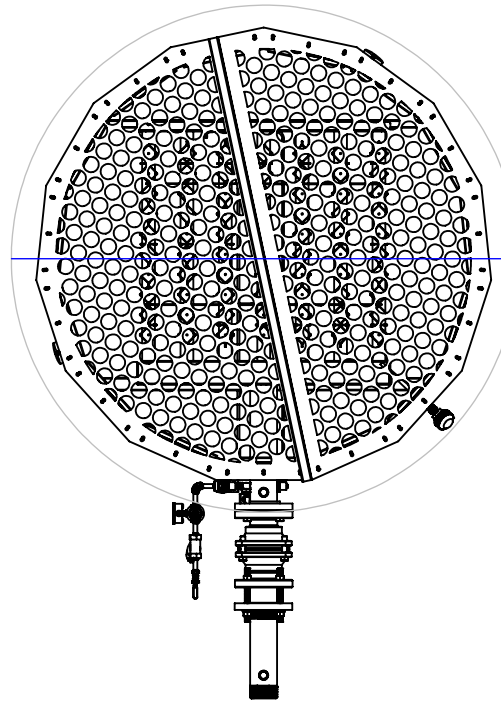
### **Thruster Technologies V1-70 Enclosed Combustor Project #23346 for Martin Energy AGA Application**

1. Flare controller is to be operated in "Auto" mode
2. Flare will be started by a remote "Run" signal from customer PLC
3. Once a "Run" command is received the Flare will go through a 30 second (field settable) purge cycle
4. Once purge is complete the pilot solenoid valves (SDV-101 & 102) will open, vent valve (SV-103) will close. The ignition transformer (TX-101) will be energized, and the ignition electrode (IE-101) will start sparking.
5. The pilot gas will be ignited, and proof of pilot lit will be detected by the Flame Rod (FR-101). Once the BMS has received confirmation that the pilot is lit the main valve contacts will be energized and gas can be sent to the main burner where it is ignited by the pilot. There will be some overlap for pilot and main flame to stabilize.
6. Main Flame is detected by UV sensor (UV-101). As long as there is a valid flame signal on either the UV scanner or the Flame Rod the pilot valves will be deenergized and pilot will be disabled to conserve pilot gas.

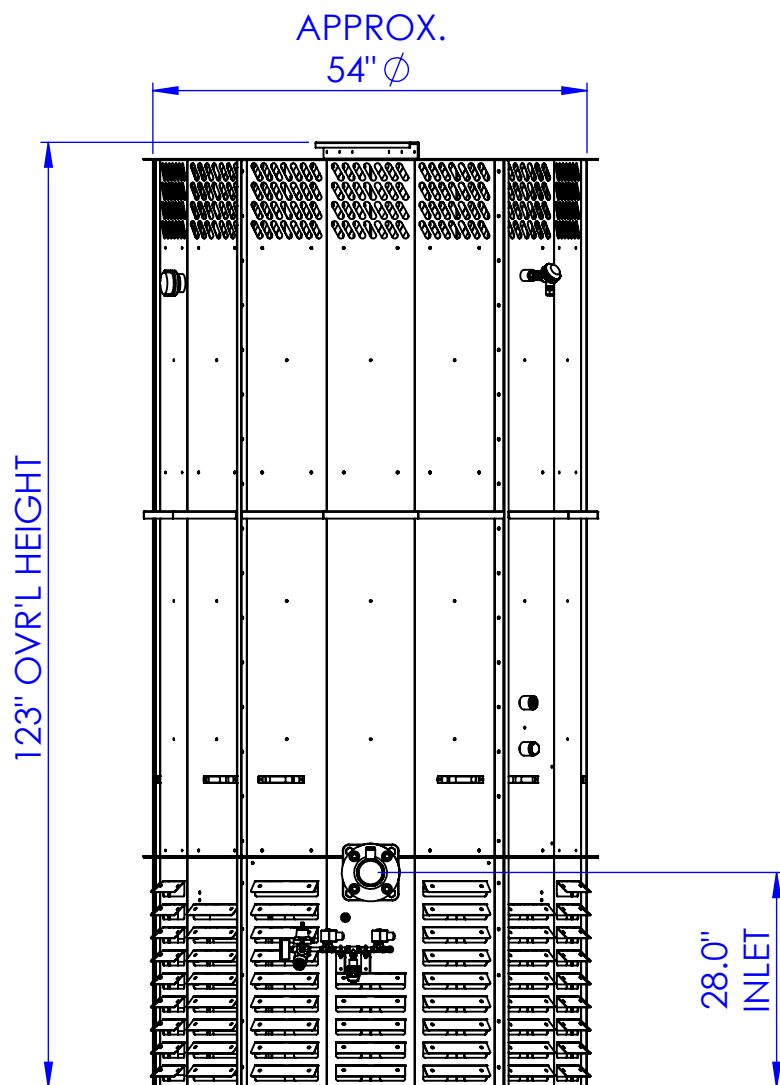
#### **Shutdown Parameters:**

- Loss of Flame signal on Flame Rod (FR-101) or UV Scanner (UV-101)
- Loss of "Run" Signal
- High Temperature of (2000°F) Sensed by Thermocouple (TC-101)

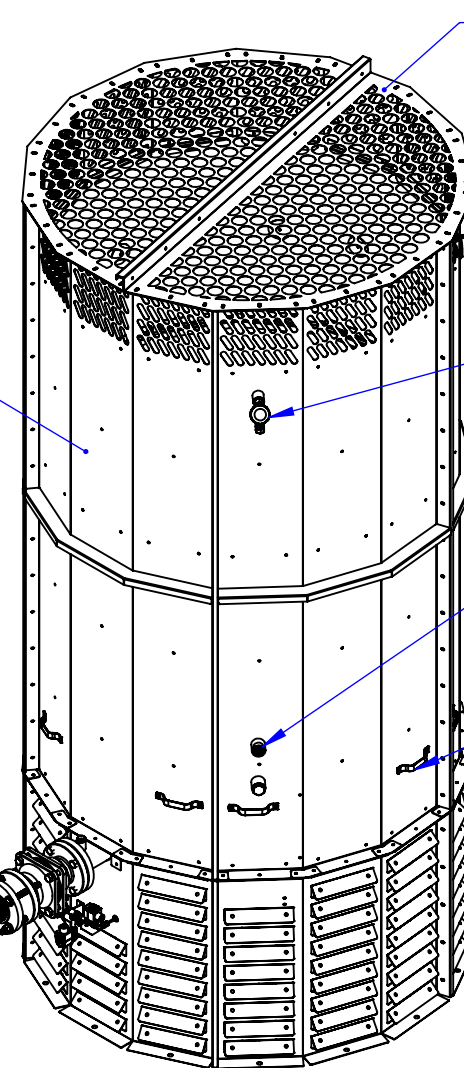




Ø 66" + Ø X 6" THK. CONCRETE PAD  
REQ'D BY OTHERS



ALL STAINLESS STEEL  
CONSTRUCTION



BIRD SCREEN  
PROTECTION

DUAL TYPE "K" THERMOCOUPLE

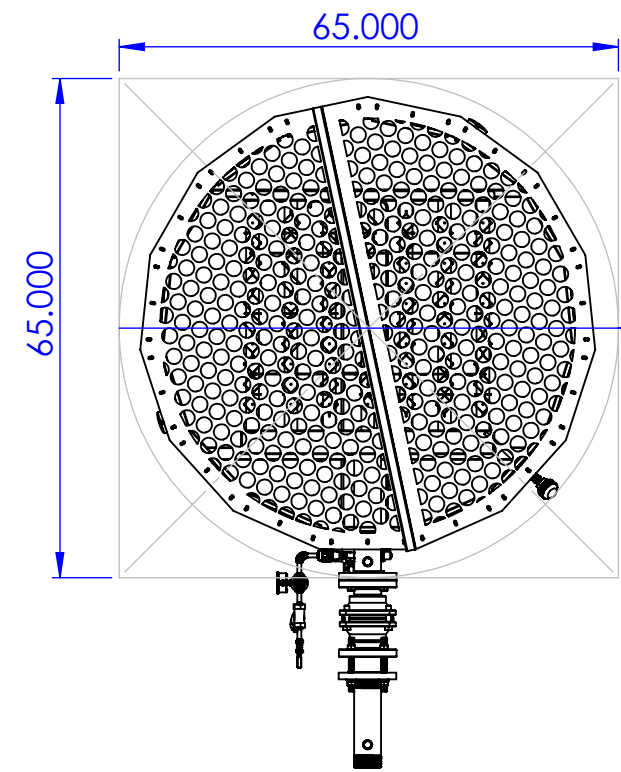
1" Ø COUPLING FOR  
UV SCANNER  
"OPTIONAL"

INTERGRATED HANDLES

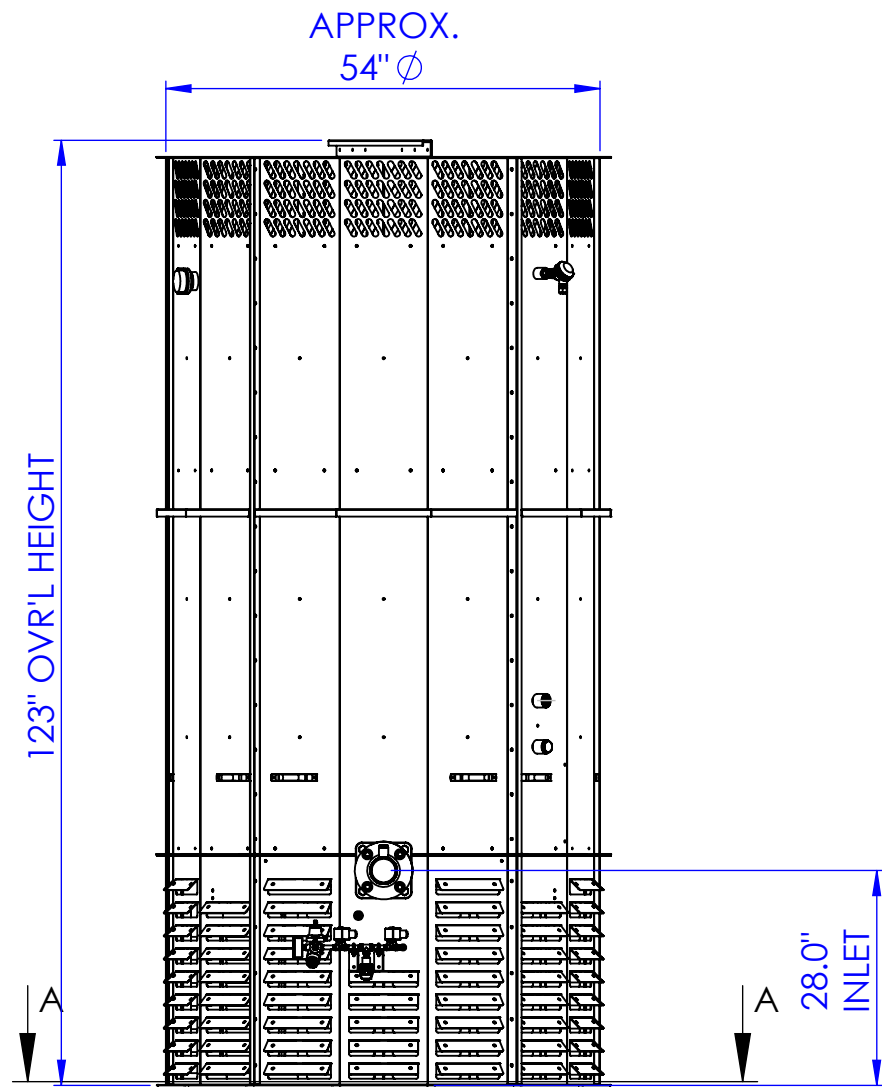
3" Ø MNPT INLET

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MATERIAL		ENG APPR.		
FINISH		MFG APPR.		SIZE <b>B</b> DWG. NO. V1-70-001 REV <b>0</b>
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		COMMENTS:		

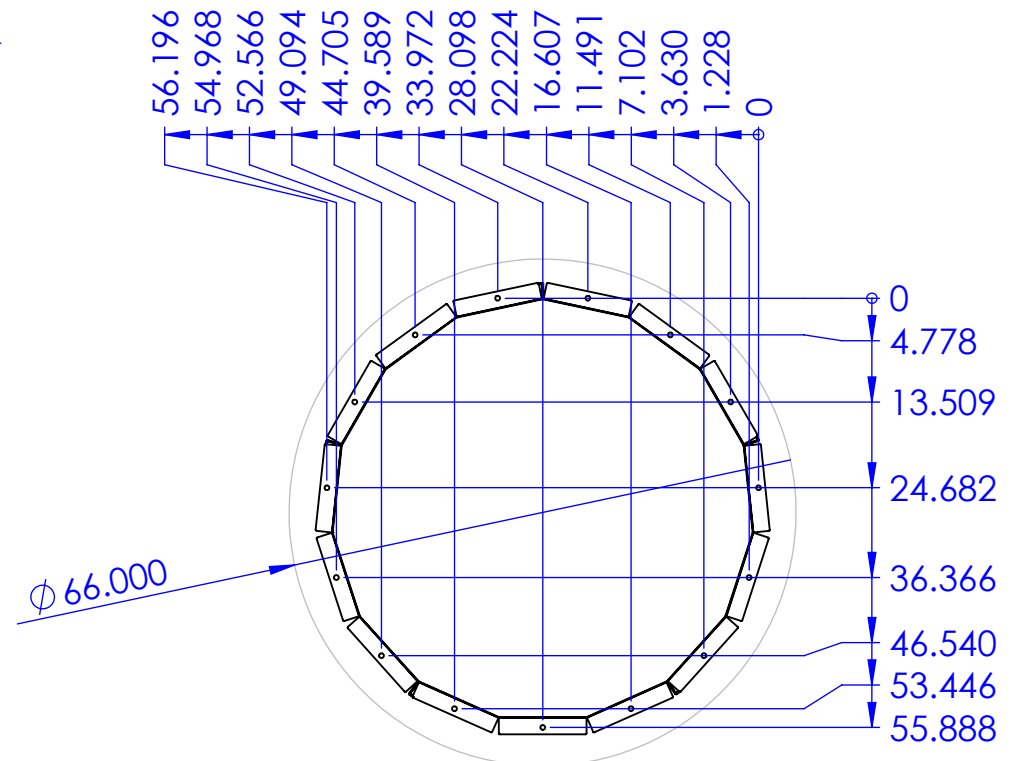


65"MINIMUM  $\phi$  + X 6" THK. CONCRETE PAD  
REQ'D BY OTHERS



APPROX.  
54"  $\phi$

28.0" INLET



SECTION A-A  
ANCHOR BOLT LAYOUT  
5 ANCHOR MINIMUM PER UNIT  
1/2"  $\phi$  X 4" LG.

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FINISH  
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MFG APPR.	
Q.A.	
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TITLE: V-170		
SIZE <b>B</b>	DWG. NO. V1-70-001	REV <b>2</b>
SCALE: 1:25	WEIGHT:	SHEET 2 OF 2