

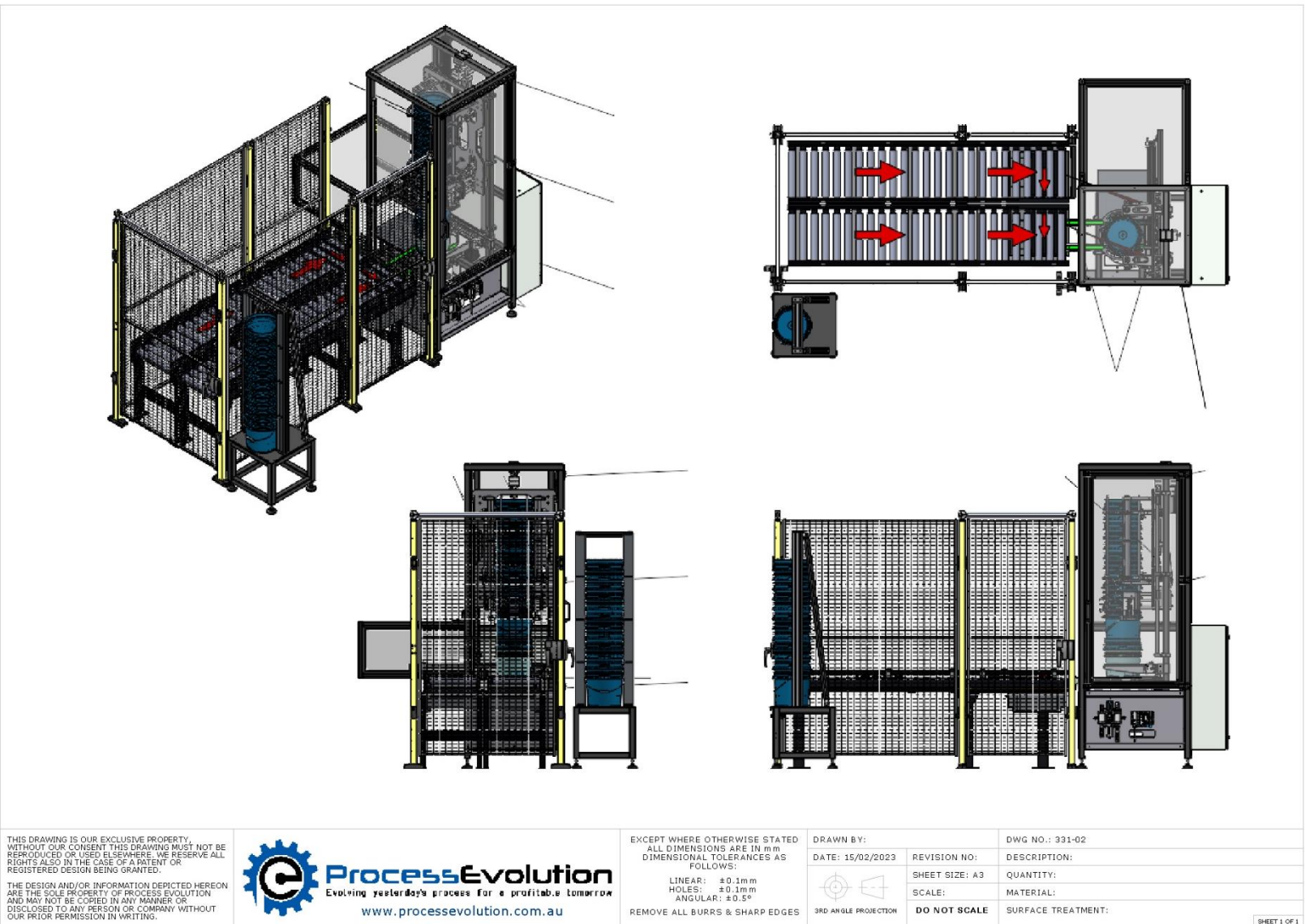
# Large Pail Denester:

- Mechanical General Arrangement Drawings
- Electrical Drawings

## GA Drawings

### Large Pail Denester

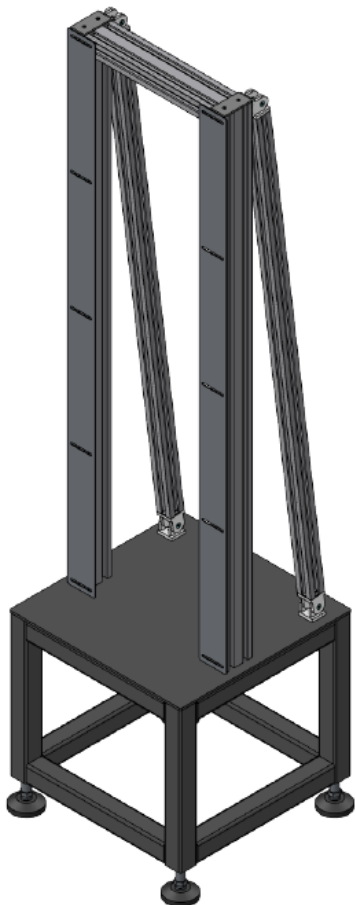
#### Main Assembly





## GA Drawings

### Handle Orientating Jig



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	Robotunits GUS_4041 (45)	GUS 4041	Robotunits	2
2	Robotunits GUS_4041 (45)	GUS 4041	Robotunits	2
3	331-240-01	Frame	ProEvo - Fab	1
4	331-240-02	Base Plate	ProEvo - SM	1
5	331-240-05	Handle Alignment Bar	ProEvo - SM	2
6	331-240-03	Extrusion Vertical Member	Robotunits	2
7	331-240-04	Extrusion Cross Member	Robotunits	1
8	331-240-06	Extrusion Support Member	Robotunits	2
9	LVR8020100SSS	Machine Feet	Richmond Castors	4
10	CAP 4081	End Cap 40x80	Robotunits	2

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ANGULAR:  $\pm 0.5^\circ$   
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DRAWN BY:

DATE: 3/03/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

**DO NOT SCALE**

DWG NO.: 331-240

DESCRIPTION: Large Pail Handle Orientation Jig

QUANTITY:

MATERIAL:

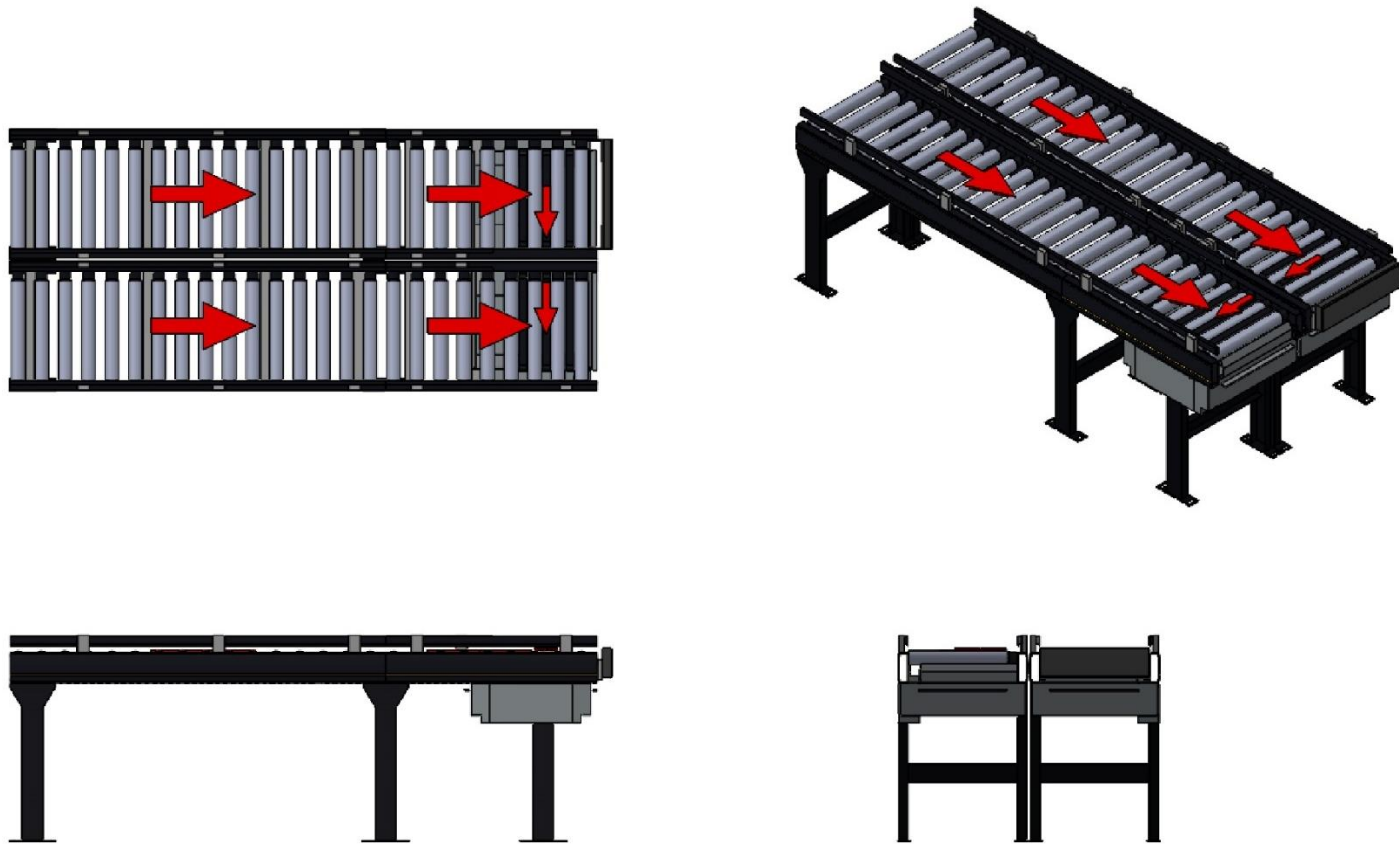
SURFACE TREATMENT:

SHEET 1 OF 1



GA Drawings

Pail Stack In-Feed Conveyors



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DRAWN BY:

DATE: 15/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-210

DESCRIPTION: Large Pail Infeed Conveyors

QUANTITY:

MATERIAL:

SURFACE TREATMENT:

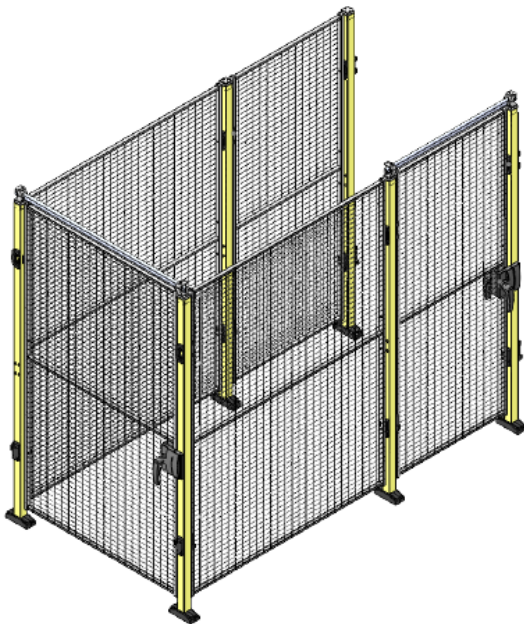
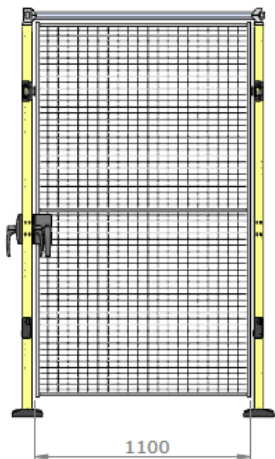
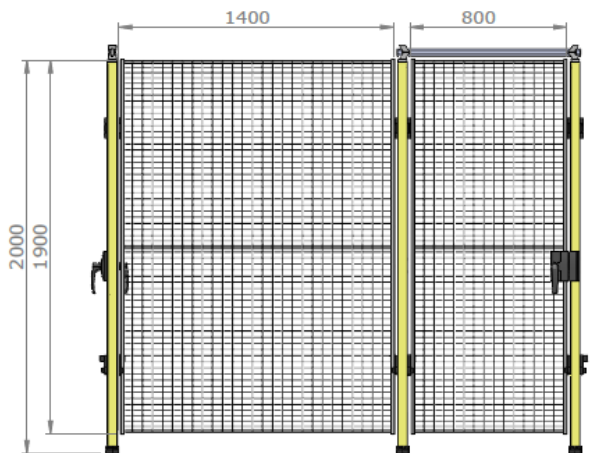
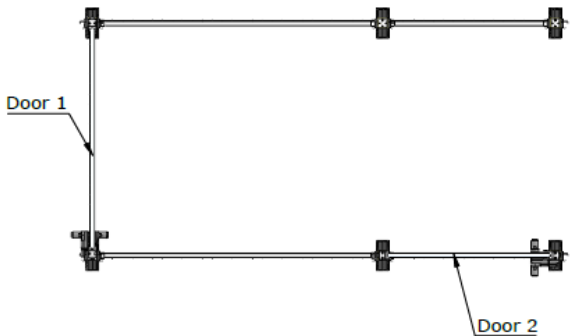
SHEET 1 OF 1



In-Feed Conveyor Guarding

GA Drawings

ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	Axellent - W322-190110	Panel 1900H x 1100W	Axellent	1
2	Axellent - L10-05-2 - Hitch Lock	Hitch Lock	Axellent	2
3	D10-XXX150A	Single hinge door with upper frame	Axellent	1
4	D10-XXX150A	Single hinge door with upper frame	Axellent	1
5	Axellent - P11-200	Post	Axellent	6
6	Axellent - W322-190140	Panel 1900H - 1400W	Axellent	2
7	W322-190080	Panel 1900H 800W	Axellent	2



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ANGULAR:  $\pm 0.5^\circ$

REMOVE ALL BURRS & SHARP EDGES

DRAWN BY:

DATE: 6/12/2022



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

**DO NOT SCALE**

DWG NO.: 331-230

DESCRIPTION: Safety Fencing

QUANTITY: 1

MATERIAL:

SURFACE TREATMENT:

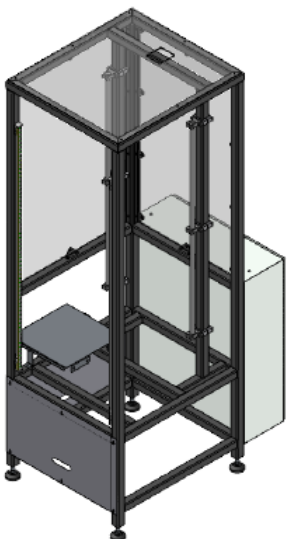
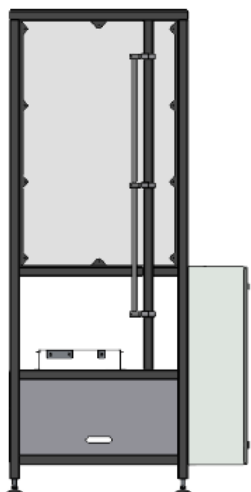
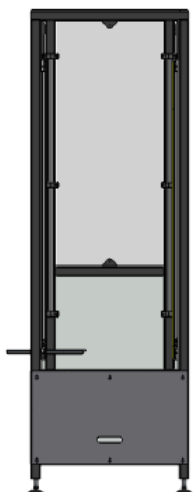
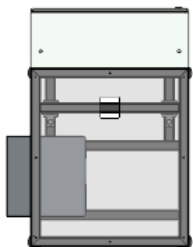
SHEET 1 OF 1





## GA Drawings

### Denester Frame



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-221-02	RHS Clamp A	ProEvo - CM	6
2	331-221-03	RHS Clamp B	ProEvo - CM	6
3	331-221-01	Frame	ProEvo - Fab	1
4	331-221-08	Roof Panel	ProEvo - PR	1
5	331-221-11	LH Guard Panel	ProEvo - PR	1
6	331-221-13	Rear Guard Panel	ProEvo - PR	1
7	331-221-05	Dead Plate Mount Bracket	ProEvo - SM	2
8	331-221-06	Dead Plate	ProEvo - SM	1
9	331-221-07	Panel Mount Bracket A	ProEvo - SM	2
10	331-221-09	Lower Front Panel	ProEvo - SM	1
11	331-221-10	Lower LH Panel	ProEvo - SM	1
12	331-221-12	Panel Mount Bracket B	ProEvo - SM	2
13	331-221-14	Panel Mount Bracket C	ProEvo - SM	4
14	331-221-15	Guard Panel Washer	ProEvo - SM	20
15	SICK - C2C-SA1503XX10000	Light Curtain	Sick	2
16	331-221-04	Linear Shaft	Statewide	2
17	THK - SK25	Linear Shaft Clamp	Statewide	6
18	LVR8020100SSS	Machine Feet	Richmond Castors	4
19	AE 1180.500	Electrical Enclosure	Rittal	1

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DRAWN BY:

DATE: 7/12/2022



REVISION NO:

SHEET SIZE: A3

SCALE:

**DO NOT SCALE**

DWG NO.: 331-221

DESCRIPTION: Large Pail Denester Frame

QUANTITY:

MATERIAL:

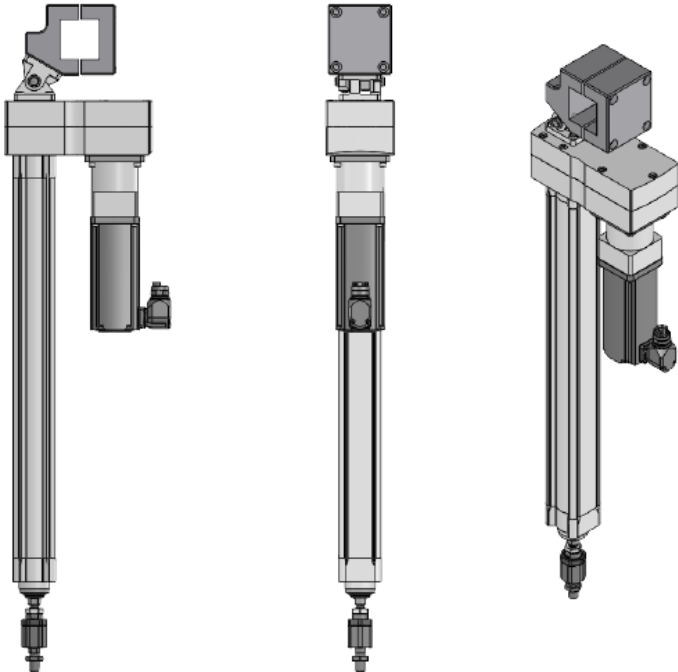
SURFACE TREATMENT:

SHEET 1 OF 1

## GA Drawings

### Denester Z-Axis Servo Actuator

ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	Festo - 1586372_EAMM-U-86-D40-60H-102-S1	Parallel Kit	Festo	1
2	Festo - 2297687_EMGA-60-P-G5-EAS-60	Gearbox	Festo	1
3	Festo - 2787470_DAMS-K-V1-40-V-R3	Actuator Mount	Festo	1
4	Festo - 5242199_EMMT-AS-60-S-LS-RMB	Servo Motor	Festo	1
5	Festo - 6141_FK-M12X125	Rod End	Festo	1
6	Festo - 8022580_ESBF-BS-40-400-10P	Actuator	Festo	1
7	331-222-01	Axis Mount Bracket A	ProEvo - CM	1
8	331-222-02	Axis Mount Bracket B	ProEvo - CM	1



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DATE: 7/12/2022



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-222

DESCRIPTION: 331-222 - Large Pail Denester Servo Axis

QUANTITY:

MATERIAL:

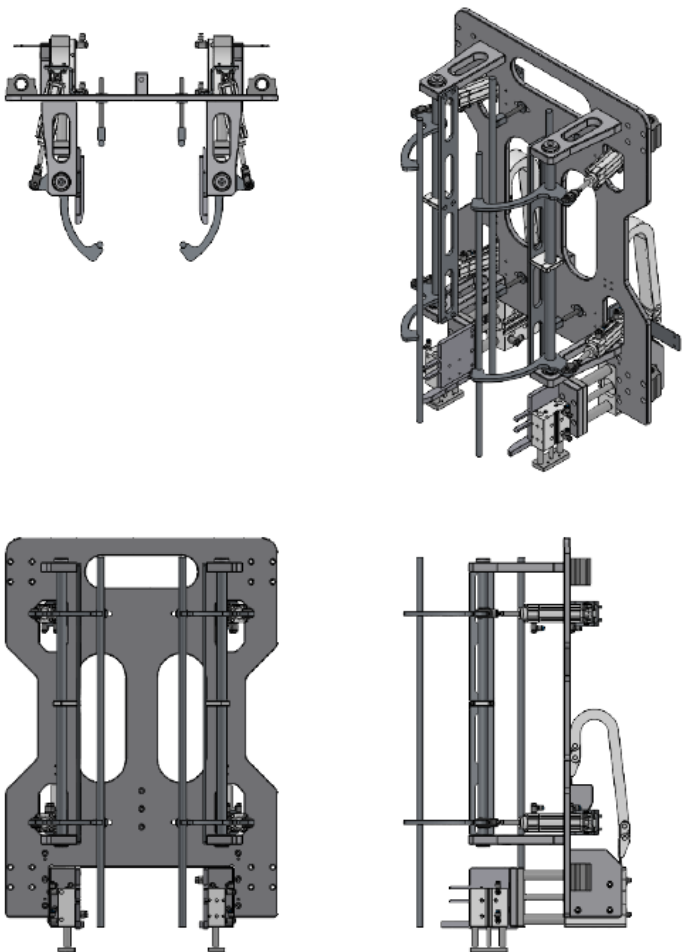
SURFACE TREATMENT:

SHEET 1 OF 1



## GA Drawings

### Denester Carriage



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-223-05	Keeper Rod Attachment Block	ProEvo - CM	4
2	Festo - SNCB-32_174390	Actuator Mount	Festo	4
3	Festo - 1376423_DSBC-32-40-PPVA-N3	Pail Stack Cage Actuator	Festo	4
4	Festo - 170851_DFM-25-50-P-A-GF	Pail Pusher Actuator	Festo	2
5	Festo - 170874_DFM-50-100-P-A-GF	Pail Separator Actuator	Festo	2
6	Festo - 193146_GRLA-1_4-QS-6-D	Flow Control	Festo	4
7	331-223-01	Main Carriage Plate	ProEvo - CM	1
8	331-223-02	Pail Stack Support Shaft	ProEvo - CM	4
9	331-223-04	Pivot Shaft	ProEvo - CM	2
10	331-223-06	All Thread M10 L140	ProEvo - CM	4
11	331-223-07	Pivot Rod Main Support LHS	ProEvo - CM	2
12	331-223-08	Pivot Rod Main Support RHS	ProEvo - CM	2
13	331-223-09	Servo Cylinder Base - Bottom	ProEvo - CM	1
14	331-223-10	Pail Stack Primary Support Plate - Rear	ProEvo - CM	1
15	331-223-11	Pail Stack Primary Support Plate - Front	ProEvo - CM	1
16	331-223-12	Shaft Cap M8	ProEvo - CM	4
17	331-223-13	Pail Stack Alignment Guide	ProEvo - CM	2
18	331-223-14	Guide Block - Alignment Plate	ProEvo - CM	2
19	331-223-17	Pail Stack Secondary Mount	ProEvo - CM	2
20	331-223-18	Pail Stack Finger Support - LHS	ProEvo - CM	1
21	331-223-19	Pail Stack Finger Support - RHS	ProEvo - CM	1
22	331-223-20	Pail Stack Support Bar	ProEvo - CM	2
23	331-223-23	Guide Block - Alignment Plate	ProEvo - CM	2
24	331-223-03	Swing Arm	ProEvo - SM	4
25	331-223-15	Sheetmetal Cylinder Support	ProEvo - SM	4
26	331-223-16	Large Washer	ProEvo - SM	8
27	331-223-22	E Chain Mount Bracket	ProEvo - SM	2
28	Bearing - SC25UU	Linear Bearing	Statewide	4
29	CPS - 030.35.R48_B1-471L_(0_049174001271)	E Chain	Swicthes Plus	2
30	GRLA-1_8-QS-6-D	Flow Control 1/8" 6mm	Festo	12
31	SG-M10X125	Clevis M10x1.25	Festo	4
32	SNCL-32	Swivel Flange	Festo	4
33	2204 E-2RS1TN9	Self Aligning Ball Bearing I.D 20mm OD 47mm	Statewide	4

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DRAWN BY:

DATE: 7/12/2022

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

3RD ANGLE PROJECTION

DWG NO.: 331-223

DESCRIPTION: Large Pail Denester Carriage

QUANTITY: 1

MATERIAL: Material <not specified>

SURFACE TREATMENT: None

SHEET 1 OF 1

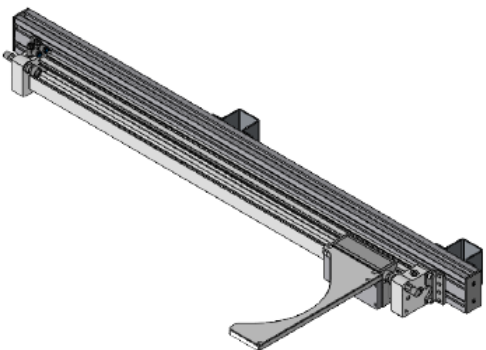




## GA Drawings

### Denester Pail Out-Feed Transfer

ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	Festo - 532448_DGC-32-800-KF-YSRW-A	DGC-32-800-KF-YSRW-A	Festo	1
2	Festo - 533669_HPC-32	HPC-32	Festo	1
3	331-224-02	Actuator Mount Bracket	ProEvo - CM	2
4	331-224-03	Pail Push Part	ProEvo - CM	1
5	331-224-05	Carriage Mount Plate	ProEvo - CM	1
6	331-224-06	Pail Pusher Gusset	ProEvo - CM	1
7	331-224-04	Assembly Mount Bracket	ProEvo - SM	2
8	331-224-01	Extrusion Mount Member	Robotunits	1
9	GRLA-1_8-QS-6-D	Flow Control 1/8" 6mm	Festo	2
10	CAP 4081	End Cap 40x80	Robot Units	2



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DRAWN BY:

DATE: 7/12/2022



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

**DO NOT SCALE**

DWG NO.: 331-224

DESCRIPTION: Large Pail Transfer Pusher

QUANTITY:

MATERIAL:

SURFACE TREATMENT:

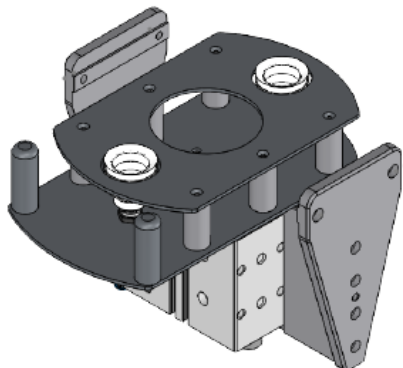
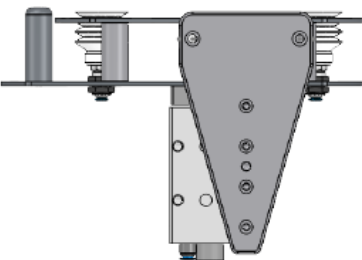
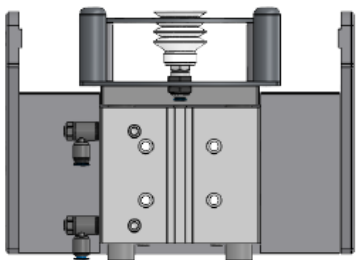
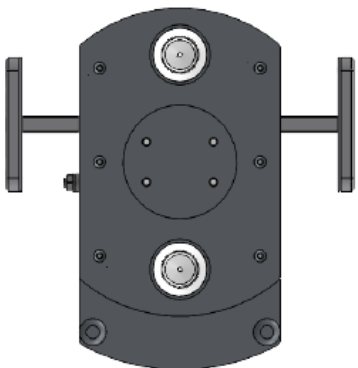
SHEET 1 OF 1



## GA Drawings

### Denester Vacuum Plate

ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	Festo - DFM-40-50-P-A-GF_170865	Actuator	Festo	1
2	Festo - ESS-40-BU	Suction Cup	Festo	2
3	331-225-01	Pail De-Nest Centre Plate	ProEvo - CM	1
4	331-225-02	SUCTION ASSY ANCHOR BRACKET	ProEvo - CM	2
5	331-225-05	Pail Hold Pin	ProEvo - CM	2
6	331-225-06	Standoff - Vacuum Cups	ProEvo - CM	6
7	331-225-03	STACK VACUUM PLATE - BOTTOM	ProEvo - SM	1
8	331-225-04	STACK VACUUM PLATE - TOP	ProEvo - SM	1
9	GRLA-1_8-QS-6-D	Flow Control 1/8" 6mm	Festo	2



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DATE: 7/12/2022



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-225

DESCRIPTION: Large Pail Vac Picker

QUANTITY: 1

MATERIAL: Material <not specified>

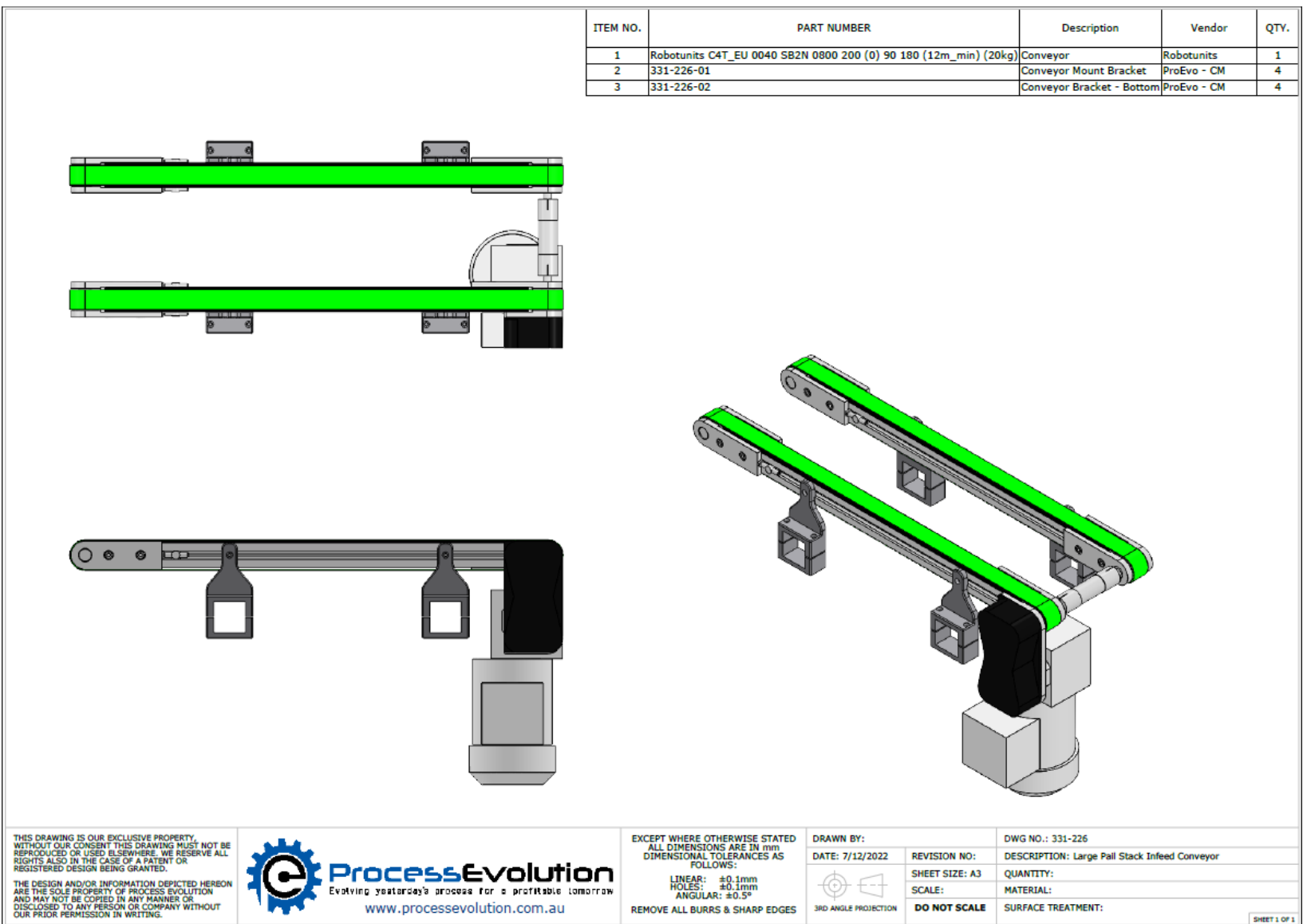
SURFACE TREATMENT: None

SHEET 1 OF 1



GA Drawings

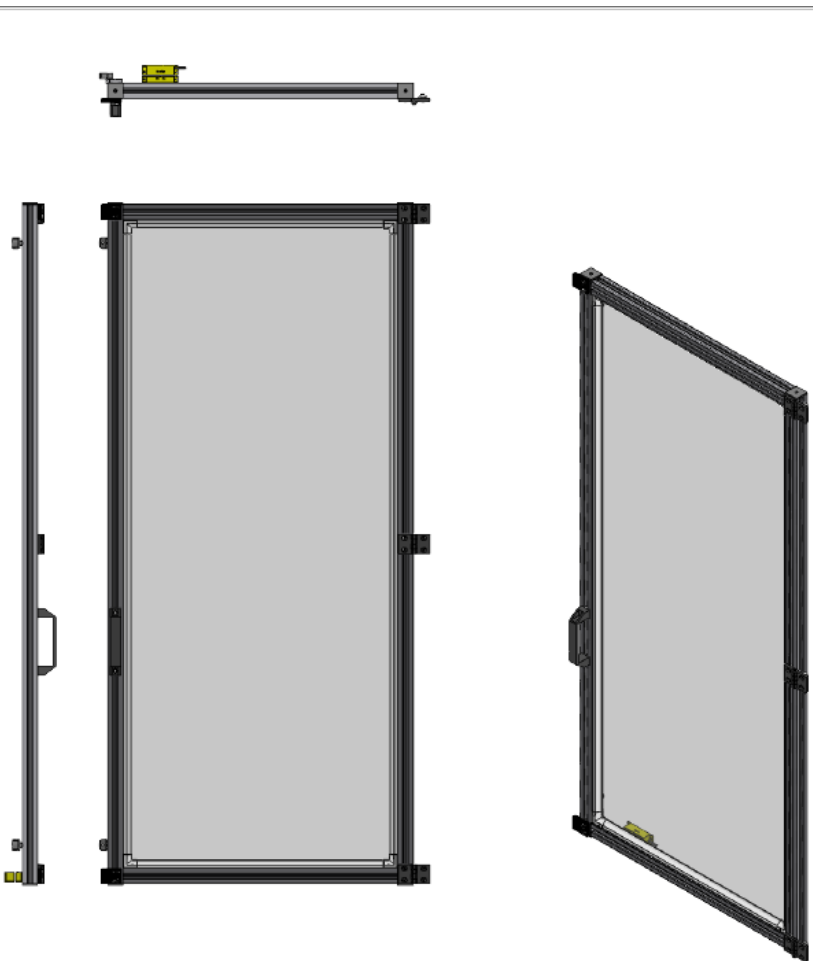
Denester In-Feed Conveyor





## GA Drawings

### Denester Guard Door



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-227-04	Ball Latch Mount	ProEvo - CM	2
2	331-227-02	Polycarb Panel	ProEvo - PR	1
3	331-227-01	Door Frame	Robotunits	1
4	331-227-03	Panel Mount Trim	Robotunits	1
5	AMX5-MKT_BTI Comtronics	Safety Switch - Non Contact	Balluff	1
6	BPS.30	Ball-shaped door lock	Elesa & Ganter	2
7	CAN 4501	Corner Piece	Robotunits	4
8	CAP 4041	End Cap	Robotunits	4
9	DOR 4501	Handle	Robotunits	1
10	DOR 4511	Hinge	Robotunits	3
11	DOR 4555	Door Stop	Robotunits	2

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ANGULAR:  $\pm 0.5^\circ$

REMOVE ALL BURRS & SHARP EDGES

DRAWN BY:

DATE: 7/12/2022



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

**DO NOT SCALE**

DWG NO.: 331-227

DESCRIPTION: Large Pall Denester Guard Door

QUANTITY:

MATERIAL:

SURFACE TREATMENT:

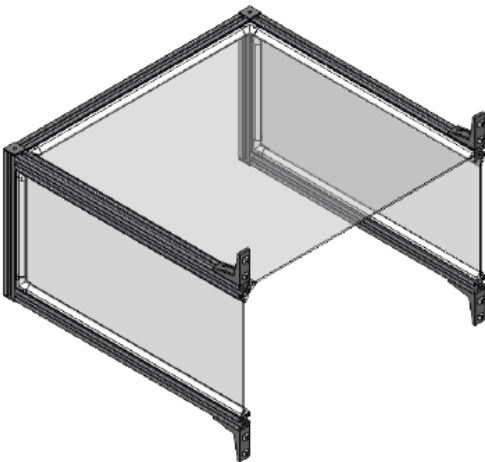
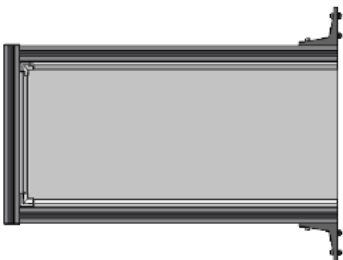
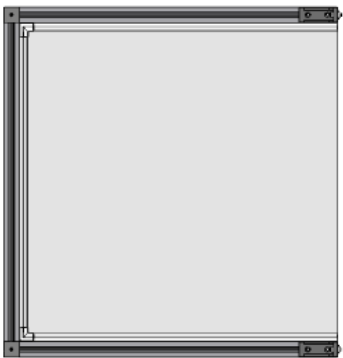
SHEET 1 OF 1



## GA Drawings

### Denester Tunnel Guard

ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-228-03	Polycarb Top Panel	ProEvo - PR	1
2	331-228-06	Polycarb Side Panel	ProEvo - PR	2
3	331-228-01	Frame	Robotunits	1
4	331-228-02	Polycarb Trim	Robotunits	1
5	331-228-04	Polycarb Trim	Robotunits	1
6	331-228-05	Polycarb Trim	Robotunits	1
7	CAN 4501	Corner Piece	Robotunits	6
8	CAP 4041	End Cap	Robotunits	4
9	GUS 1101	Corner Bracket 100	Robotunits	4



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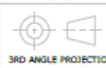
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ALL DIMENSIONS ARE IN mm  
DIMENSIONAL TOLERANCES AS  
FOLLOWS:

LINEAR:  $\pm 0.1\text{mm}$   
HOLES:  $\pm 0.1\text{mm}$   
ANGULAR:  $\pm 0.5^\circ$

REMOVE ALL BURRS & SHARP EDGES

DRAWN BY:

DATE: 7/12/2022



REVISION NO:

SHEET SIZE: A3

SCALE:

**DO NOT SCALE**

DWG NO.: 331-228

DESCRIPTION: Large Pail Denester Tunnel Guard

QUANTITY:

MATERIAL:

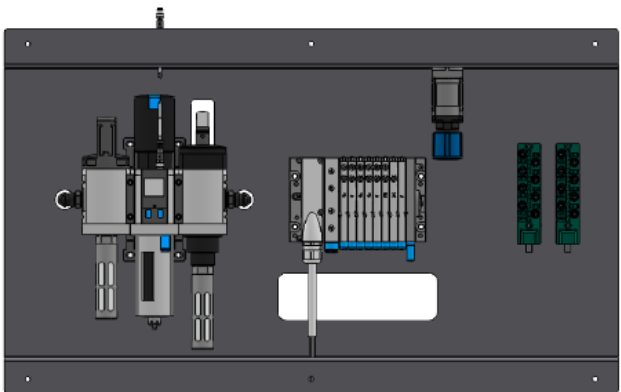
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SHEET 1 OF 1

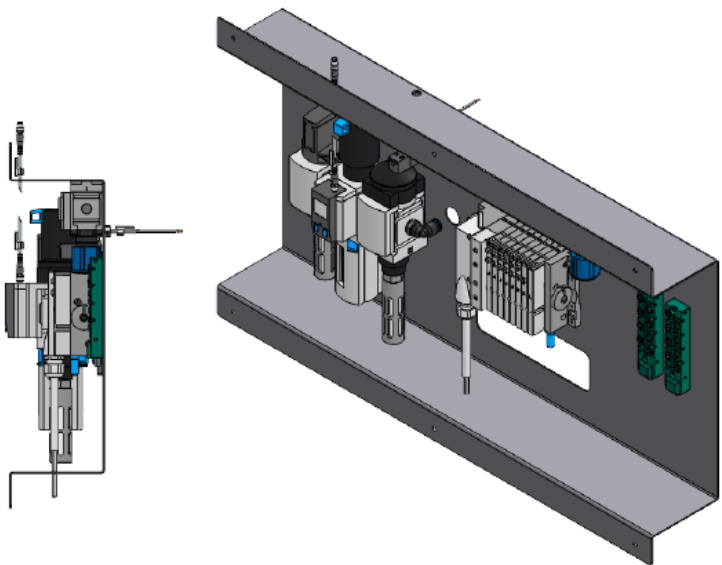


# GA Drawings

## Denester Pneumatic Control Panel



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	Festo - 569926 34P-MS1-U8A-SJEXL	Valve Bank	Festo	1
2	331-229-01	Pneumatic Panel	ProEvo - SM	1
3	MSB6-3_8_C4_113_D4-WP	Air Service Unit	Festo	1
4	KMEB-1-24-S-LED	Plug & Cable	Festo	1
5	MS4-LR-1_4-D6-AG-MPA-B	Regulator	Festo	1
6	NEBU-M8G3-K-5-M8G3	Cable M8 3-pin 5m	Festo	1
7	QSL-G3_8-10	Push-In L G3/8" 10mm	Festo	2
8	VMPAL-KM-V-SD25-IP67-5	Connecting Cable - Valve Bank	Festo	1
9	V3-8A-E2-5M-PUR	Splitter Box 8 Way M8 3pin	Pepperl Fuchs	2



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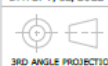
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DIMENSIONAL TOLERANCES AS  
FOLLOWS:

LINEAR:  $\pm 0.1\text{mm}$   
HOLES:  $\pm 0.1\text{mm}$   
ANGULAR:  $\pm 0.5^\circ$

REMOVE ALL BURRS & SHARP EDGES

DRAWN BY:

DATE: 7/12/2022



REVISION NO:

SHEET SIZE: A3

SCALE:

**DO NOT SCALE**

DWG NO.: 331-229

DESCRIPTION: Large Pall Denester Pneumatics Panel

QUANTITY:

MATERIAL:



SURFACE TREATMENT:

SHEET 1 OF 1



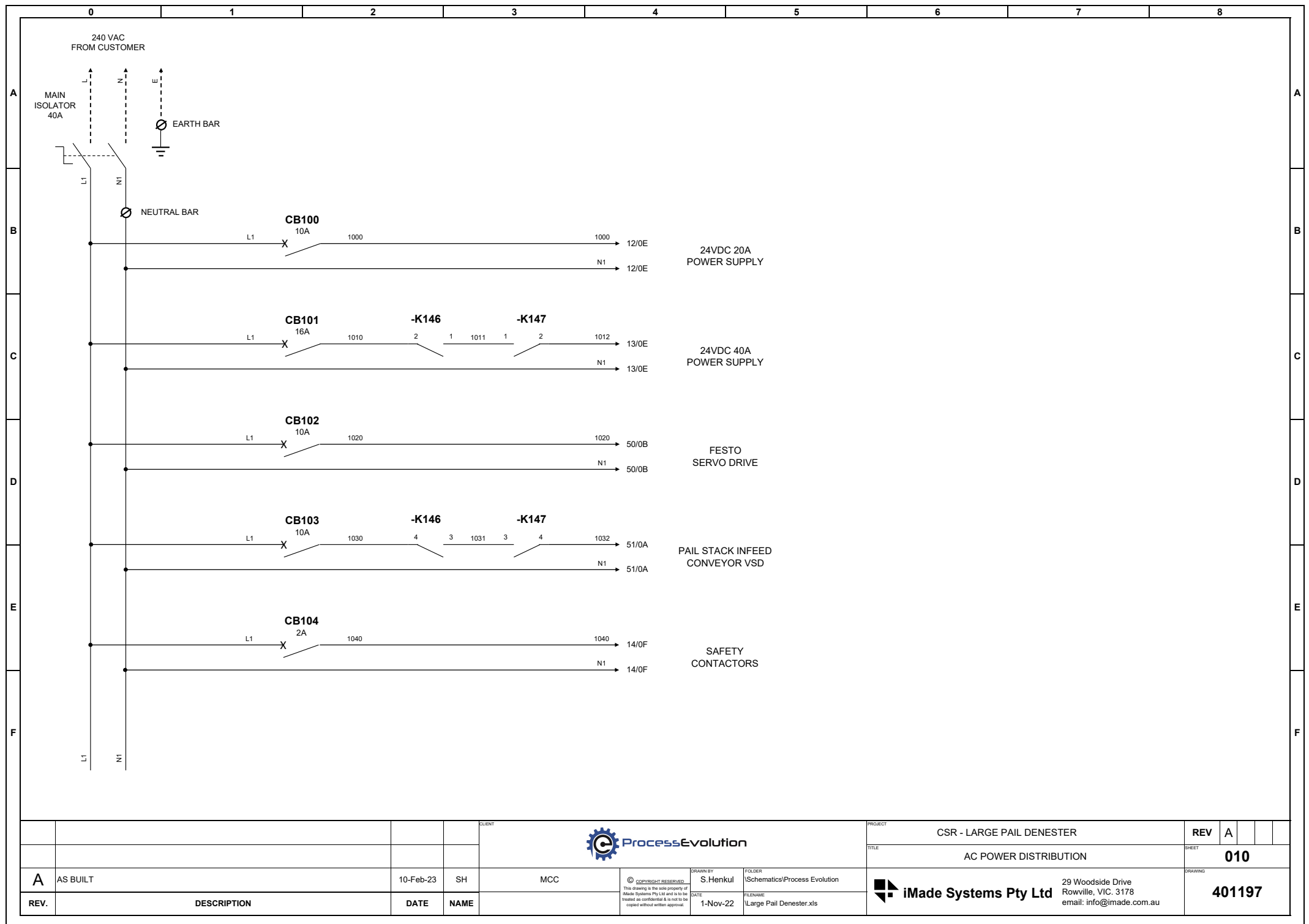




# LARGE PAIL DENESTER ELECTRICAL DRAWINGS

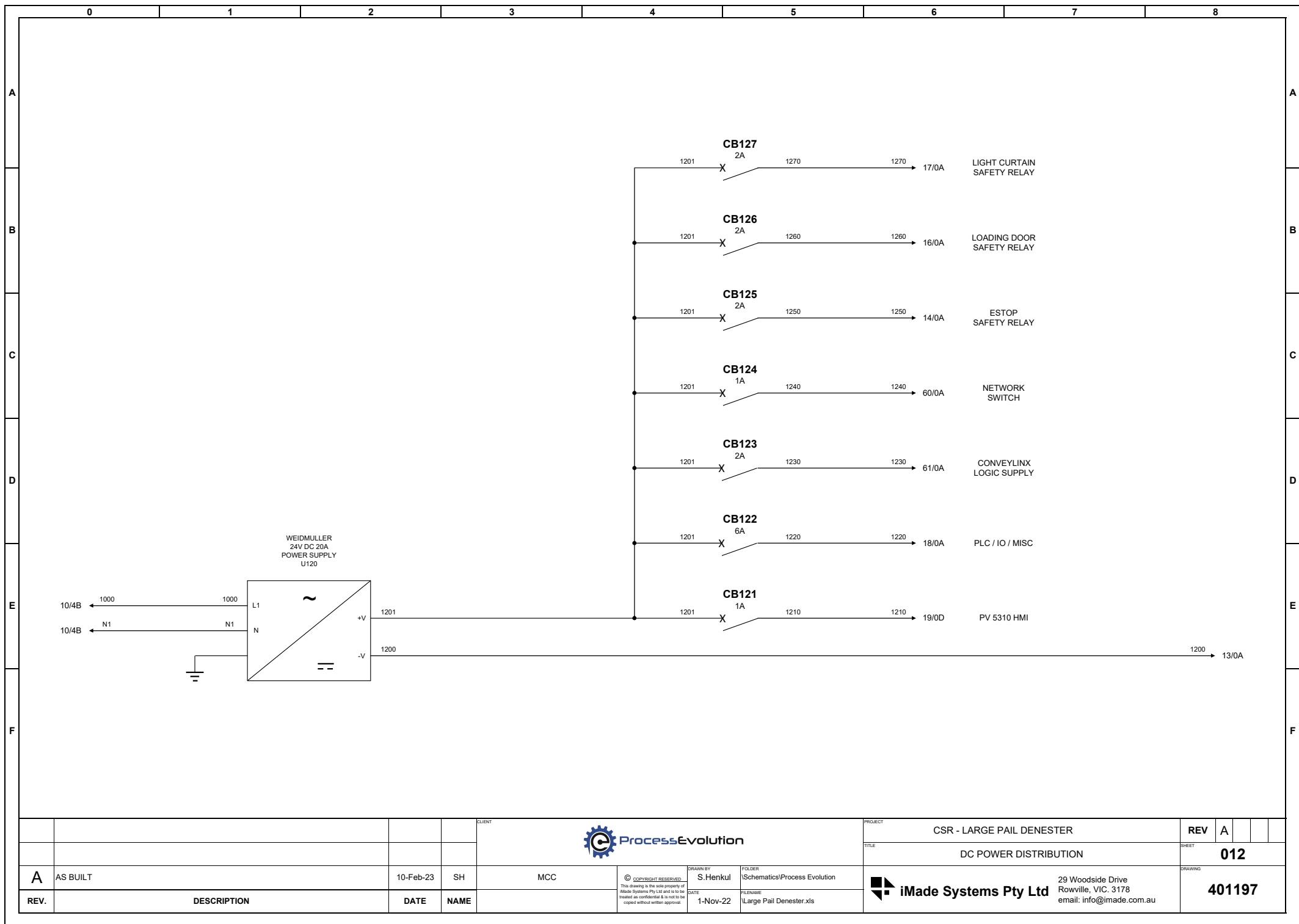
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								CSR - LARGE PAIL DENESTER				SHEET					
								TITLE PAGE				000					
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REV.	DESCRIPTION		DATE	NAME	401197												





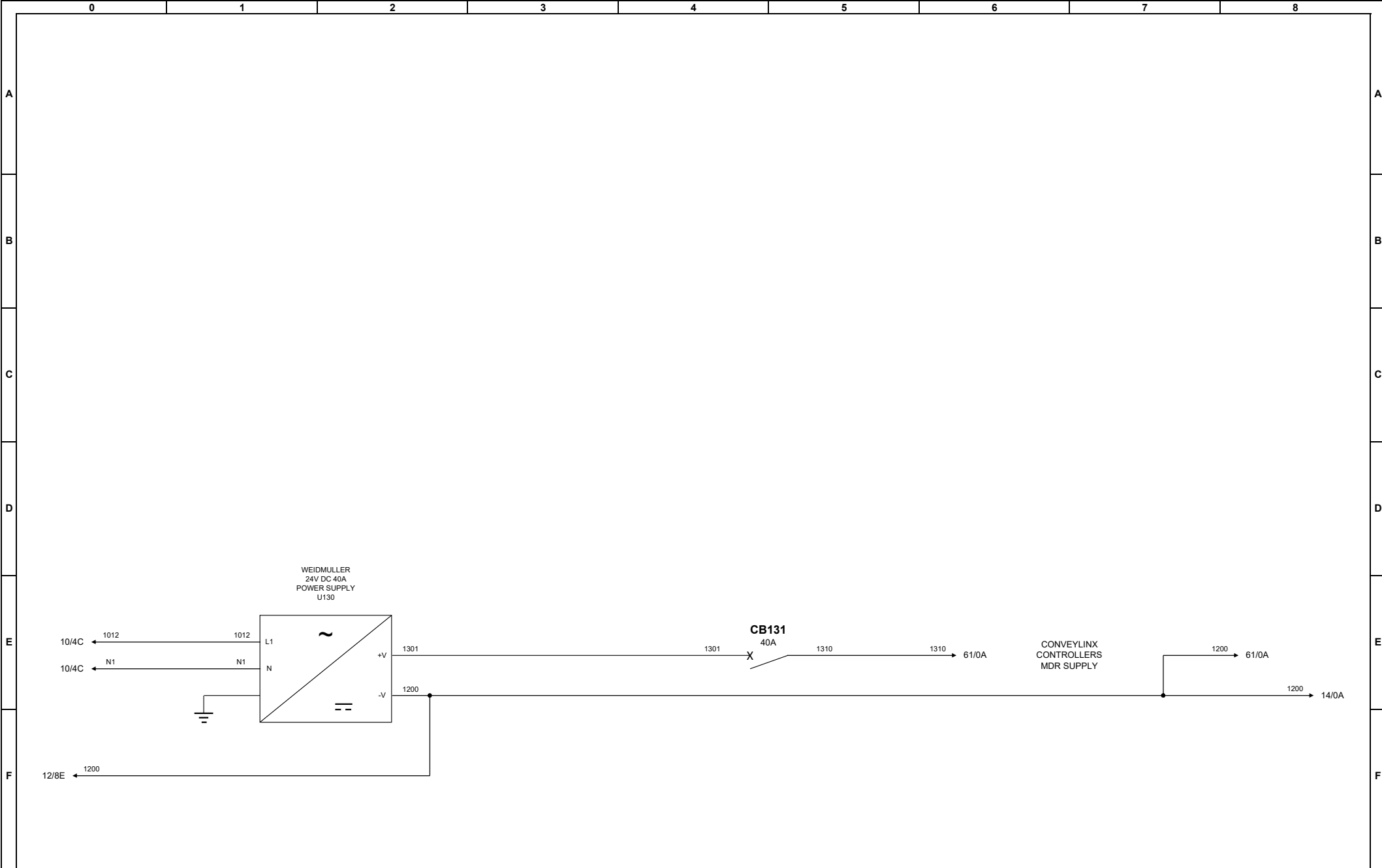






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			<div><div></div><div>ProcessEvolution</div></div>							TITLE			AC POWER DISTRIBUTION			SHEET	010			
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REV.	DESCRIPTION		DATE		NAME		DATE 1-Nov-22	FILENAME Large Pail Denester.xls												



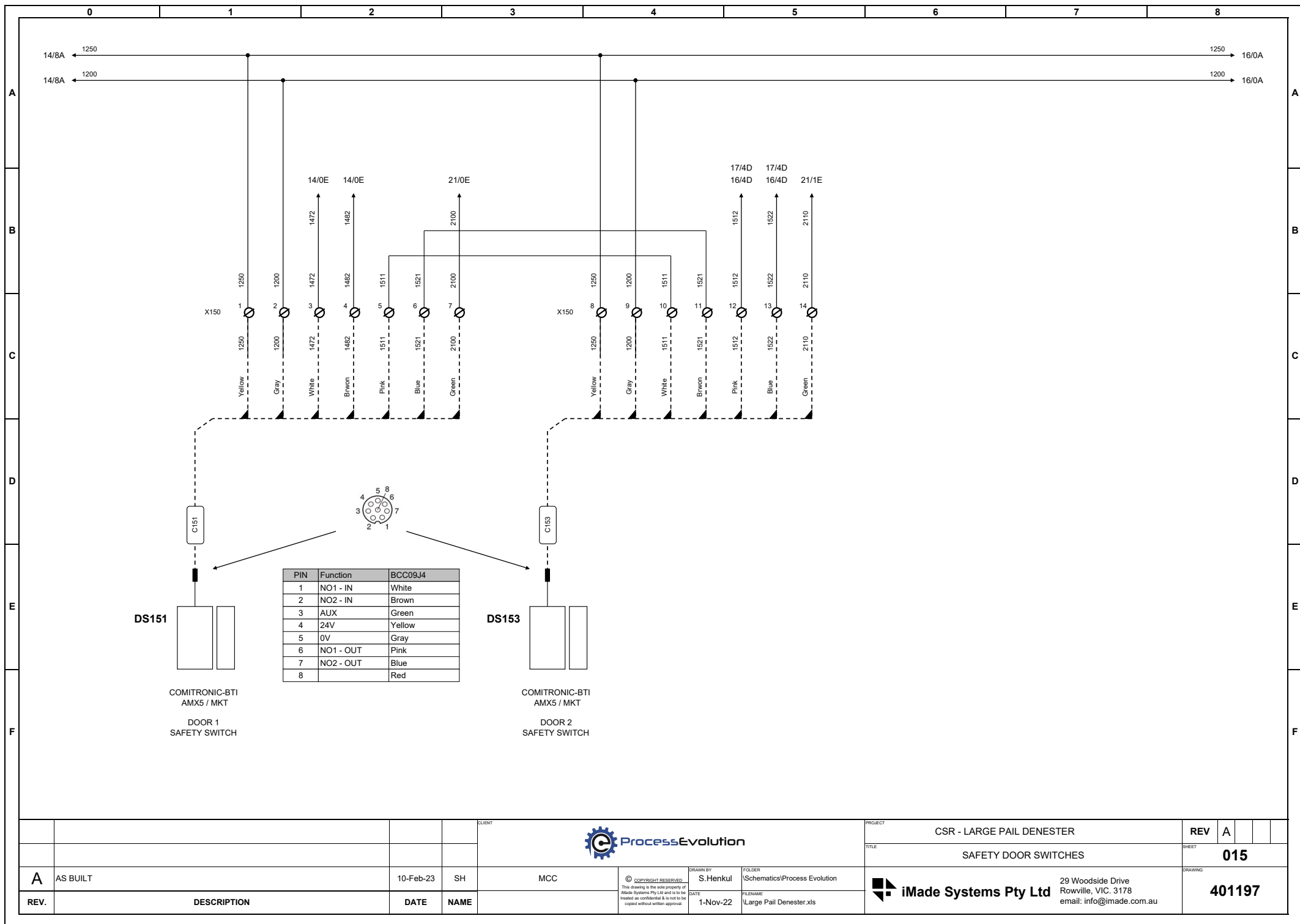
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REV.	DESCRIPTION				DATE	NAME											



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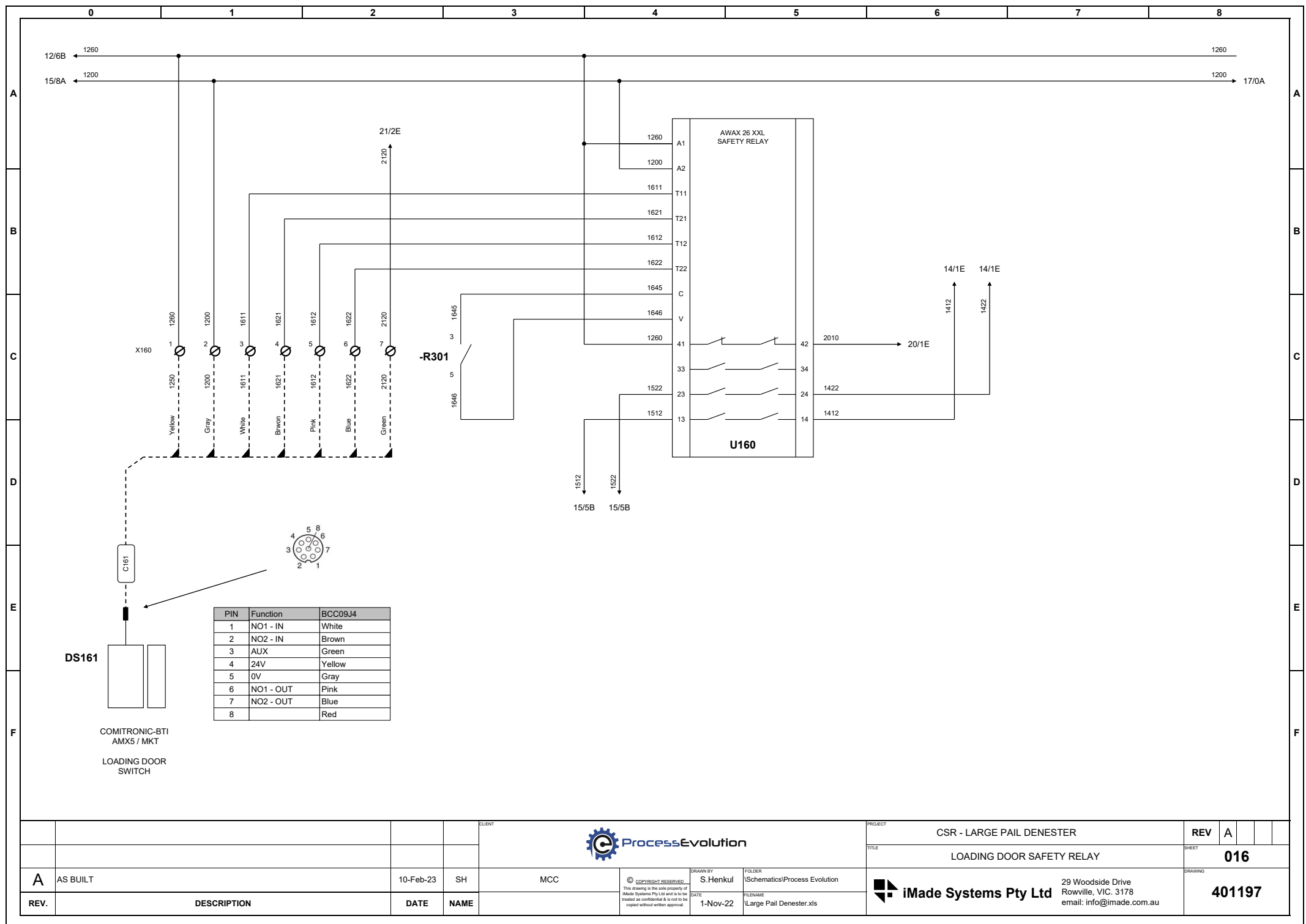




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DRAWN BY		S.Henkul		DRAWING		401197	
FOLDER		ISchematics/Process Evolution		DATE		1-Nov-22	
FILENAME		Large Pail Denester.xls		CLIENT		MCC	
DESCRIPTION		DATE		NAME		SH	
REV.		AS BUILT		10-Feb-23		SH	



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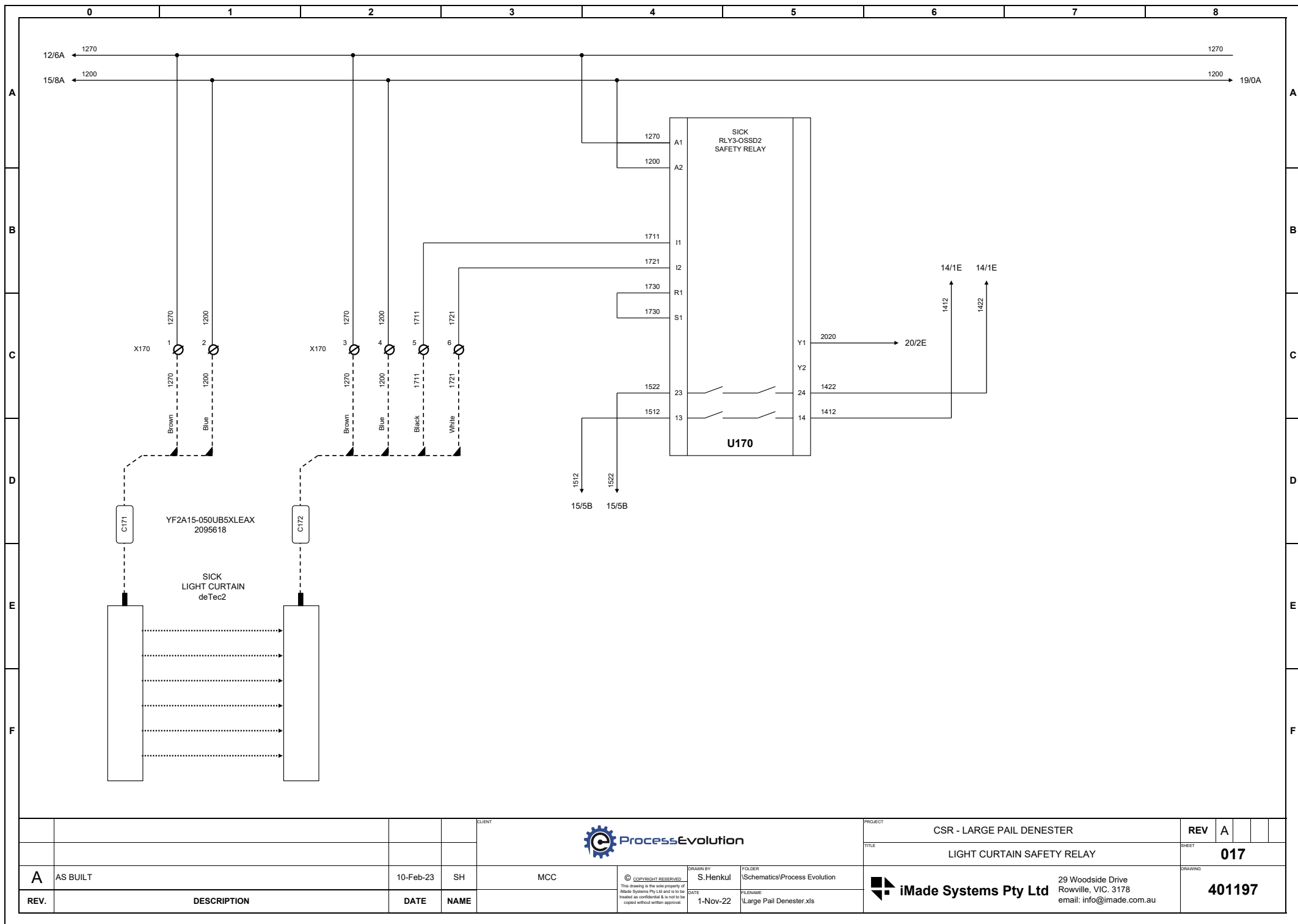




PROJECT		CSR - LARGE PAIL DENESTER		REV	A		
TITLE		LOADING DOOR SAFETY RELAY		SHEET	016		
DRAWING		iMade Systems Pty Ltd 29 Woodside Drive Rowville, VIC. 3178 email: info@imade.com.au		401197			

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REV.	DESCRIPTION	DATE	NAME	

DRAWN BY		S.Henkul		FOLDER		ISchematics/Process Evolution	
DATE		1-Nov-22		FILENAME		Large Pail Denester.xls	

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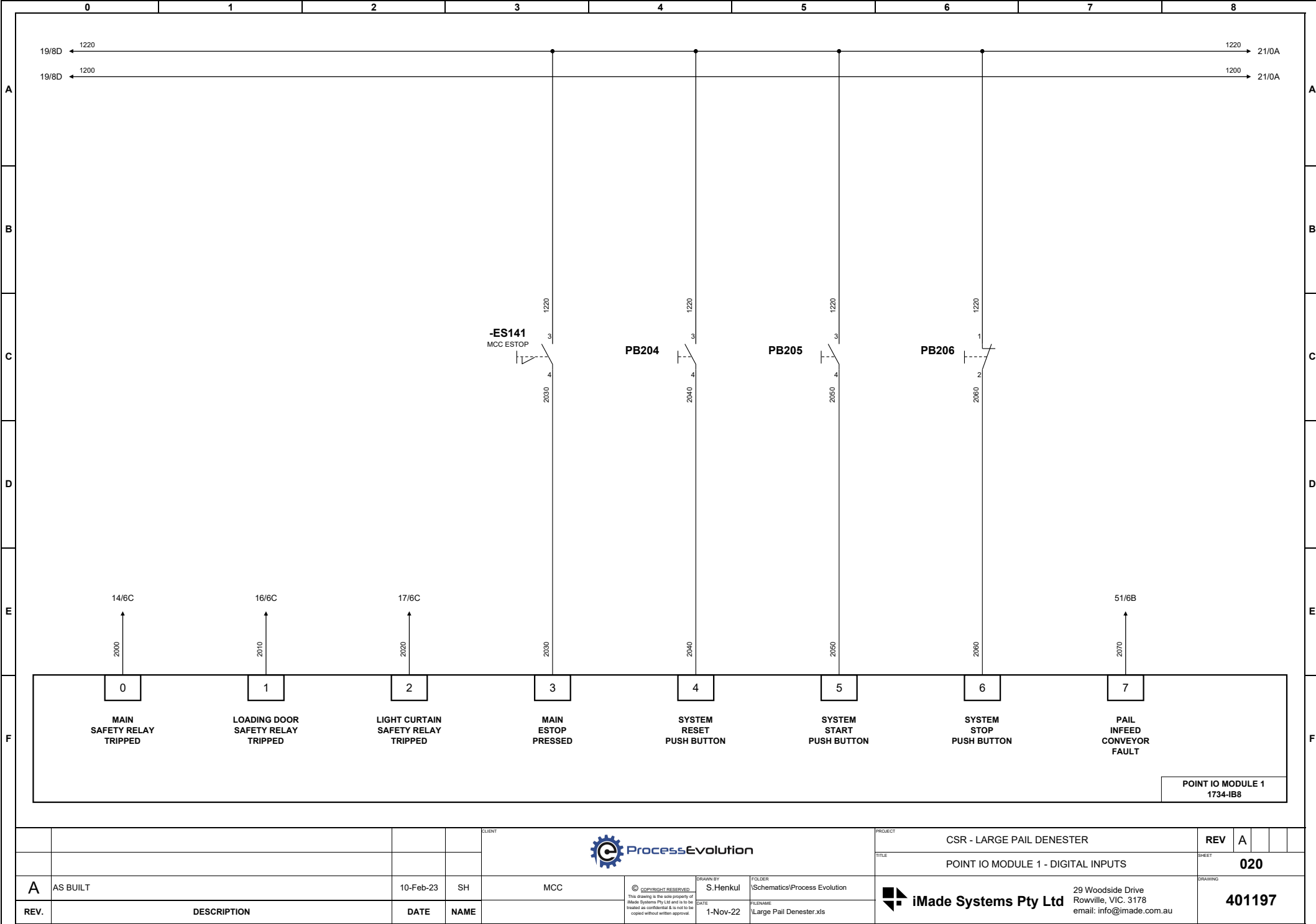


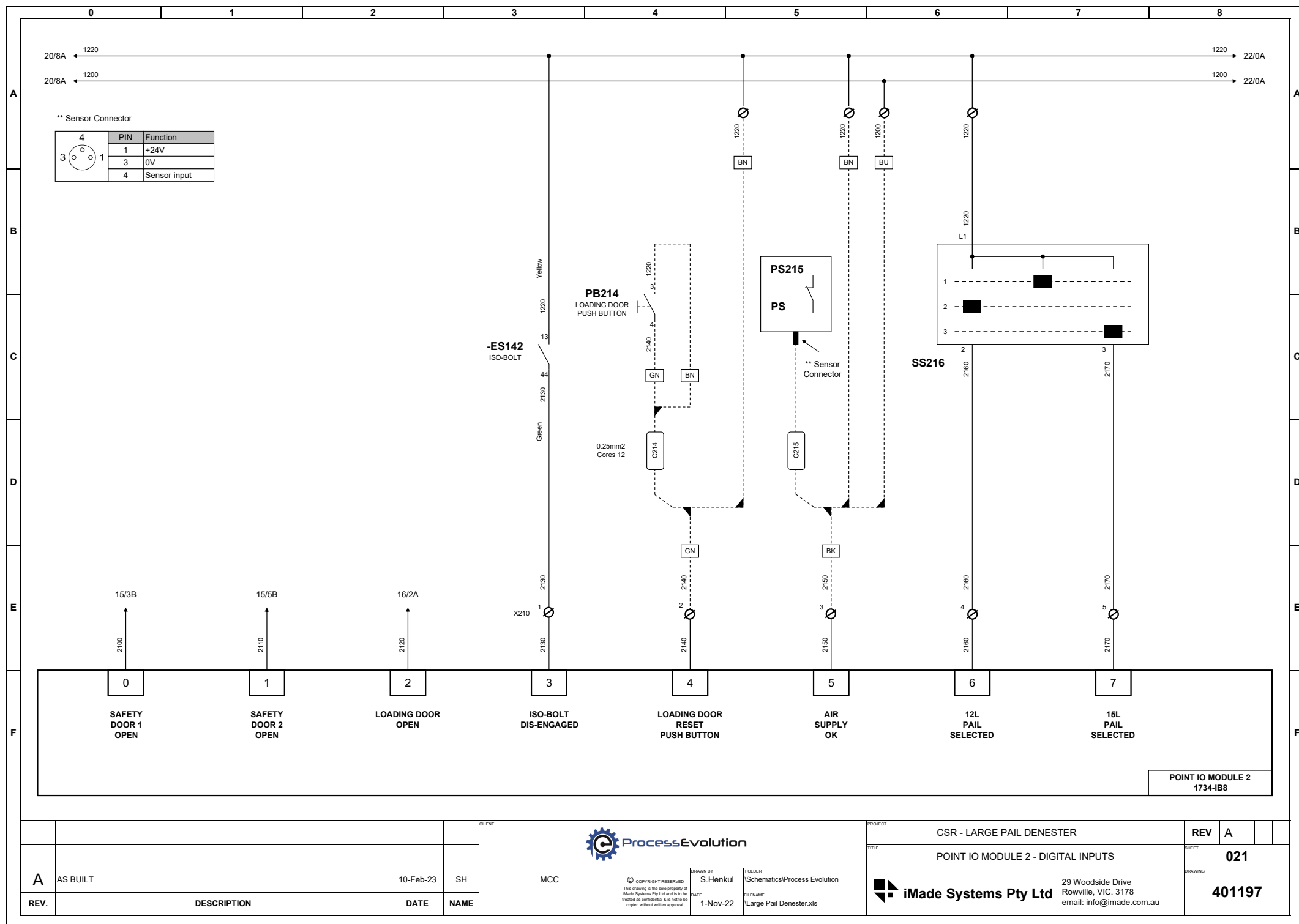
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REV.	DESCRIPTION		DATE	NAME			DATE 1-Nov-22	FILENAME Large Pail Denester.xls						



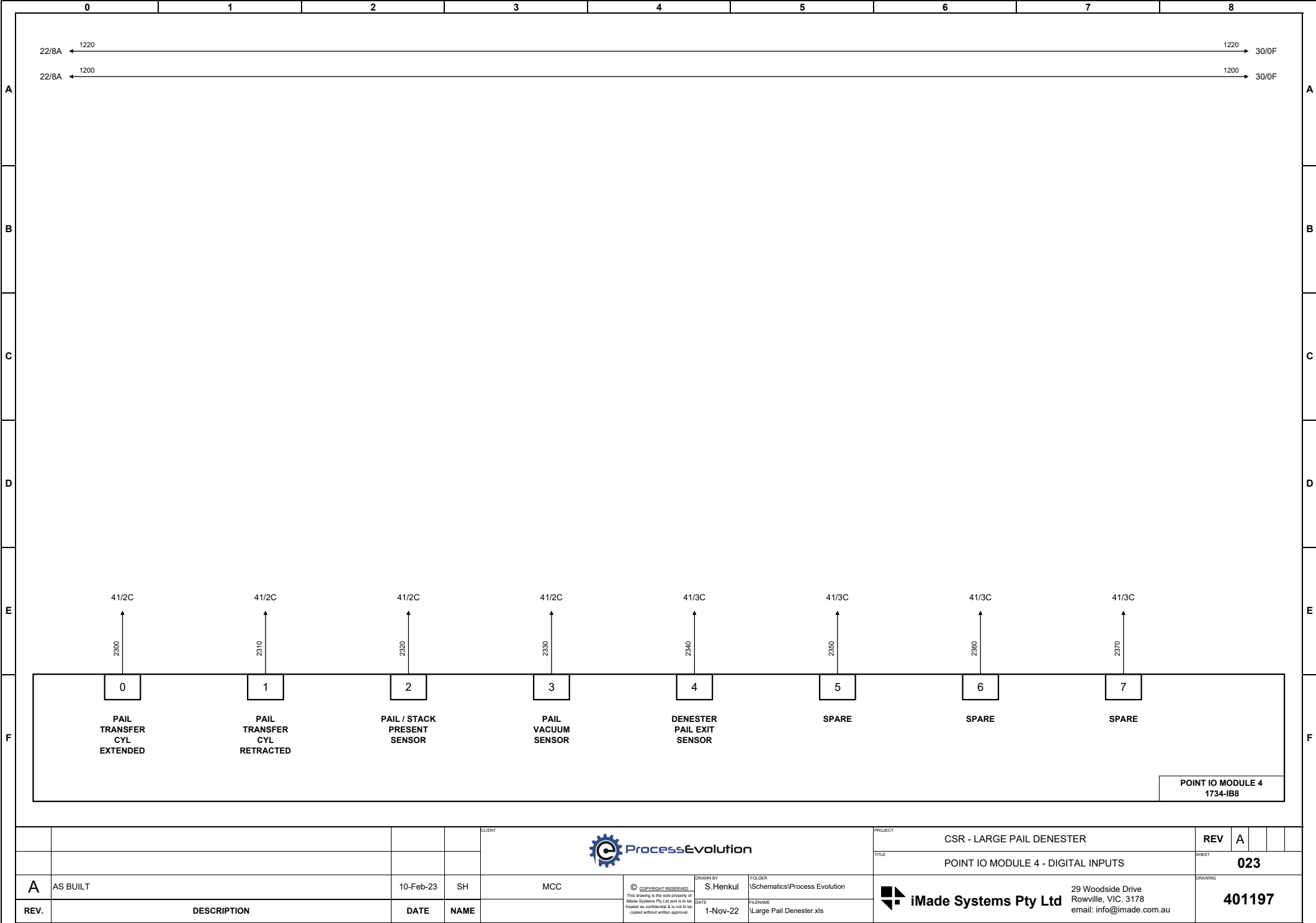


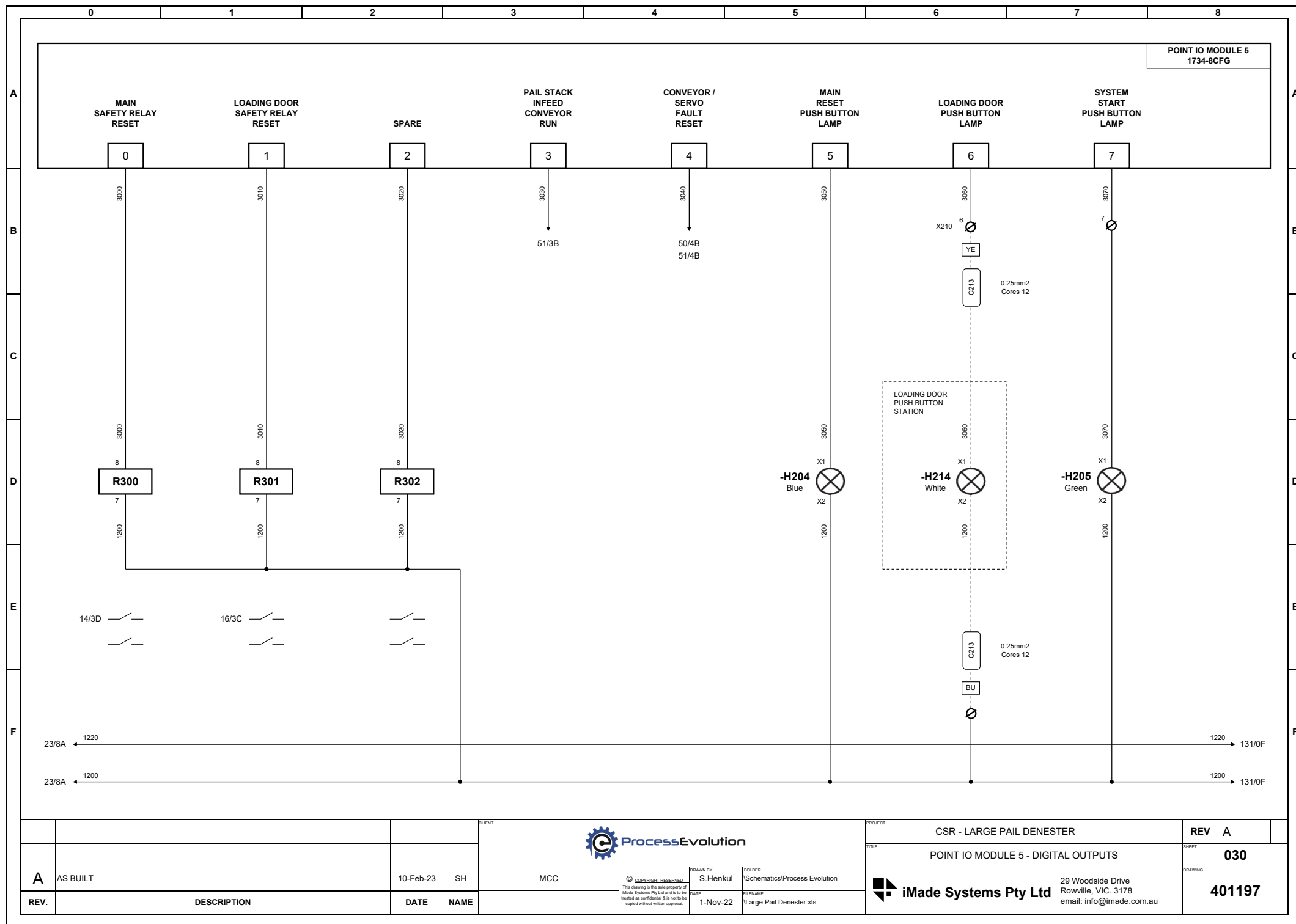


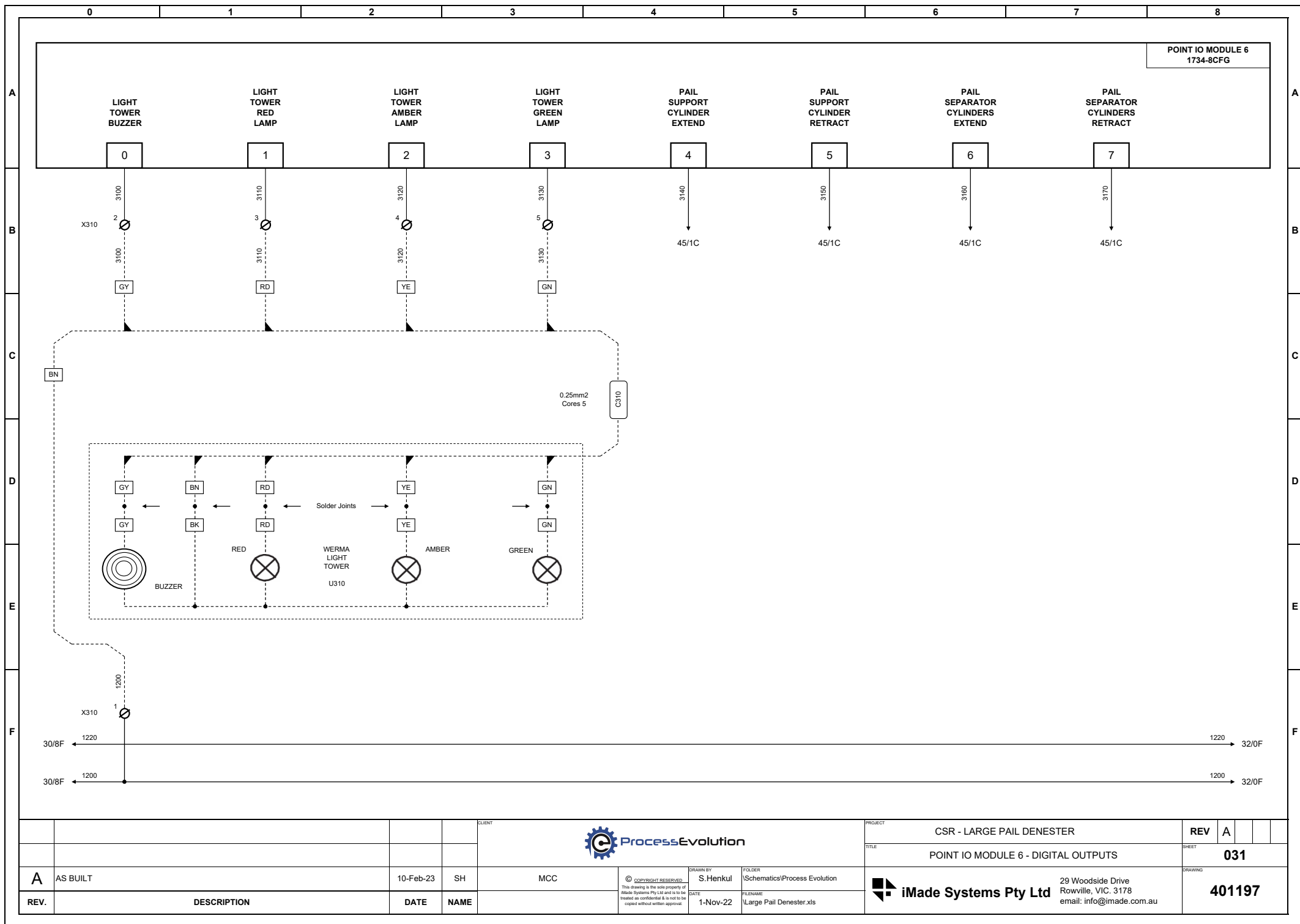






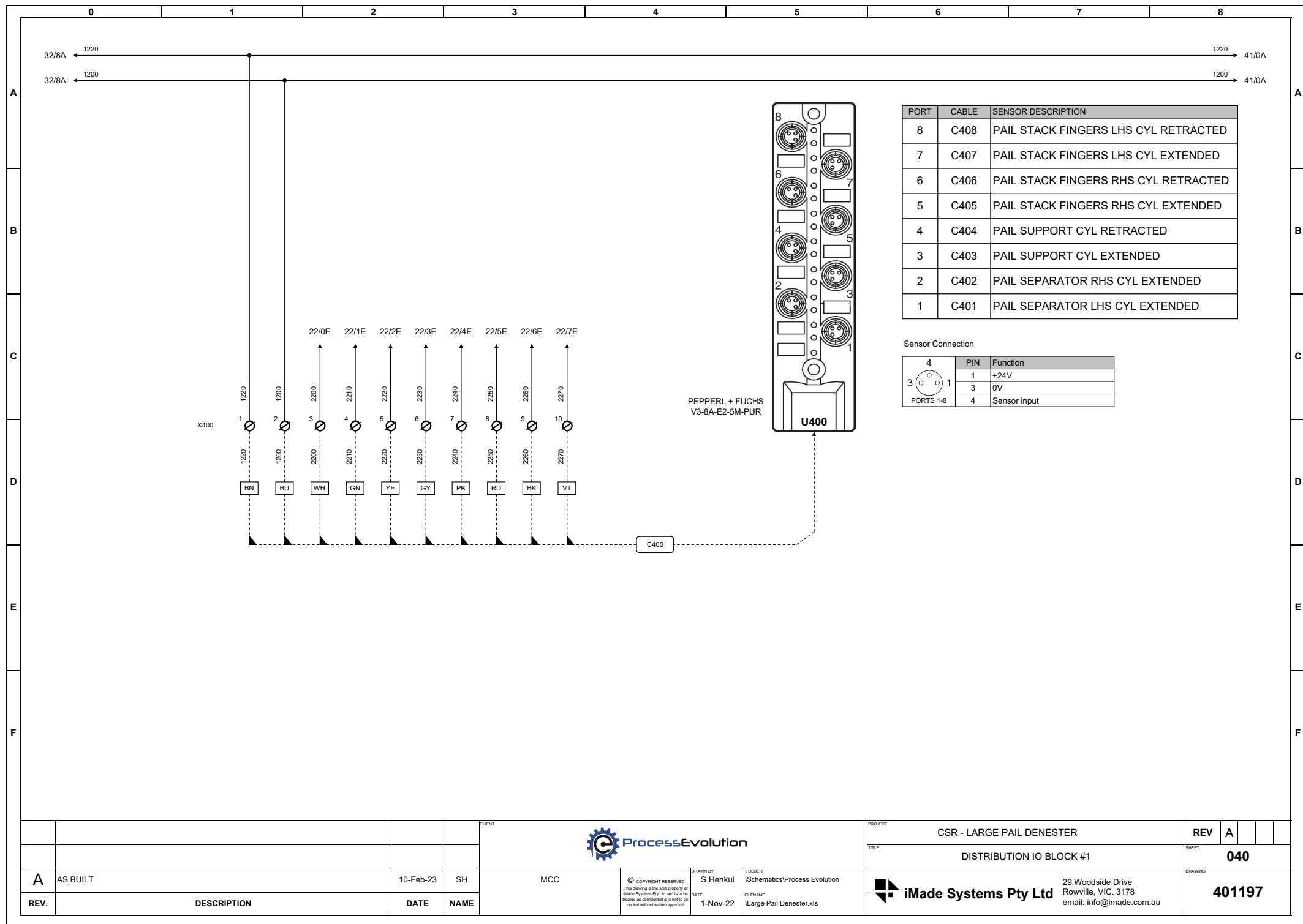






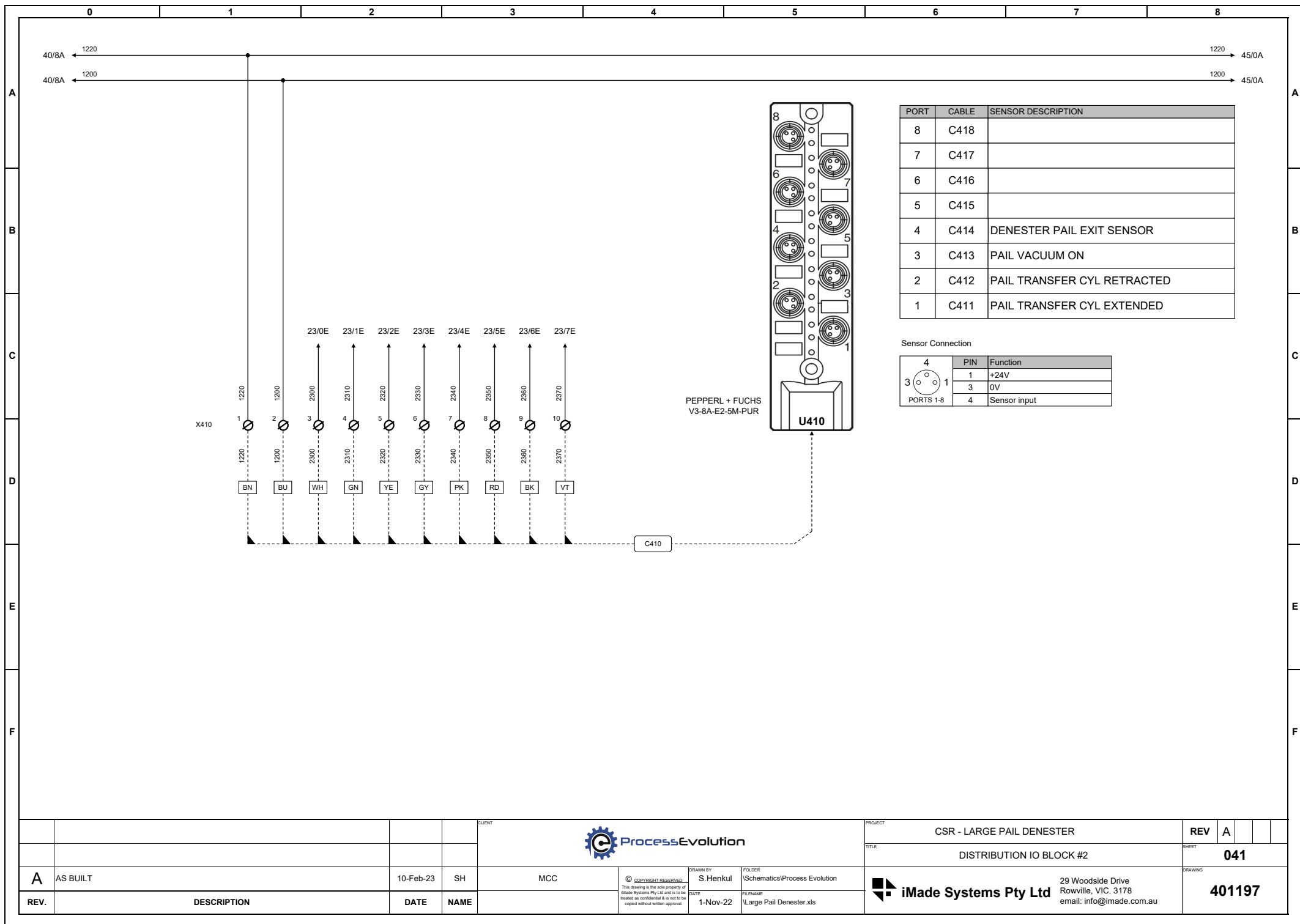








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REV.	DESCRIPTION			DATE	1-Nov-22		FILENAME	Large Pail Denester.xls															



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DATE  
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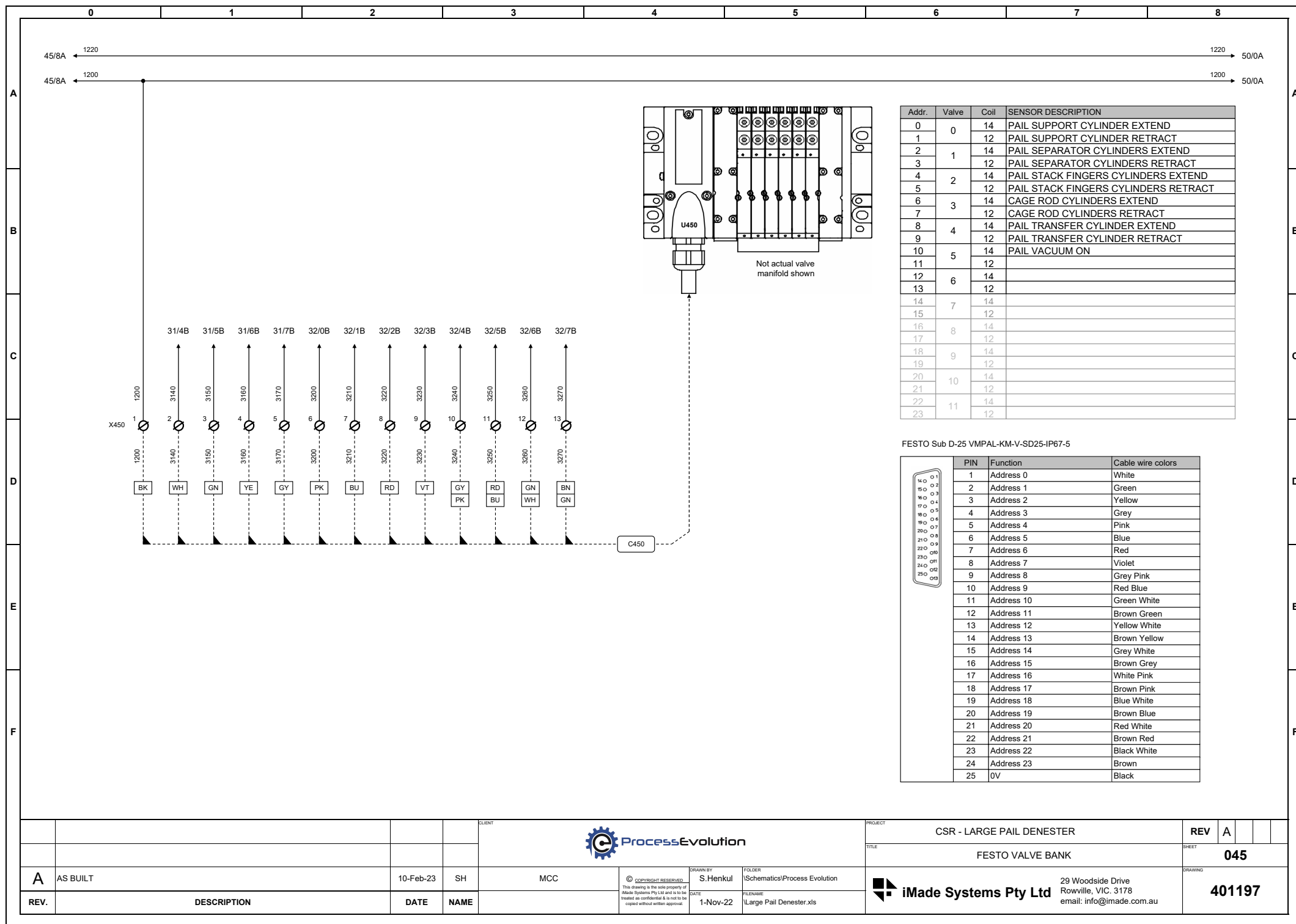
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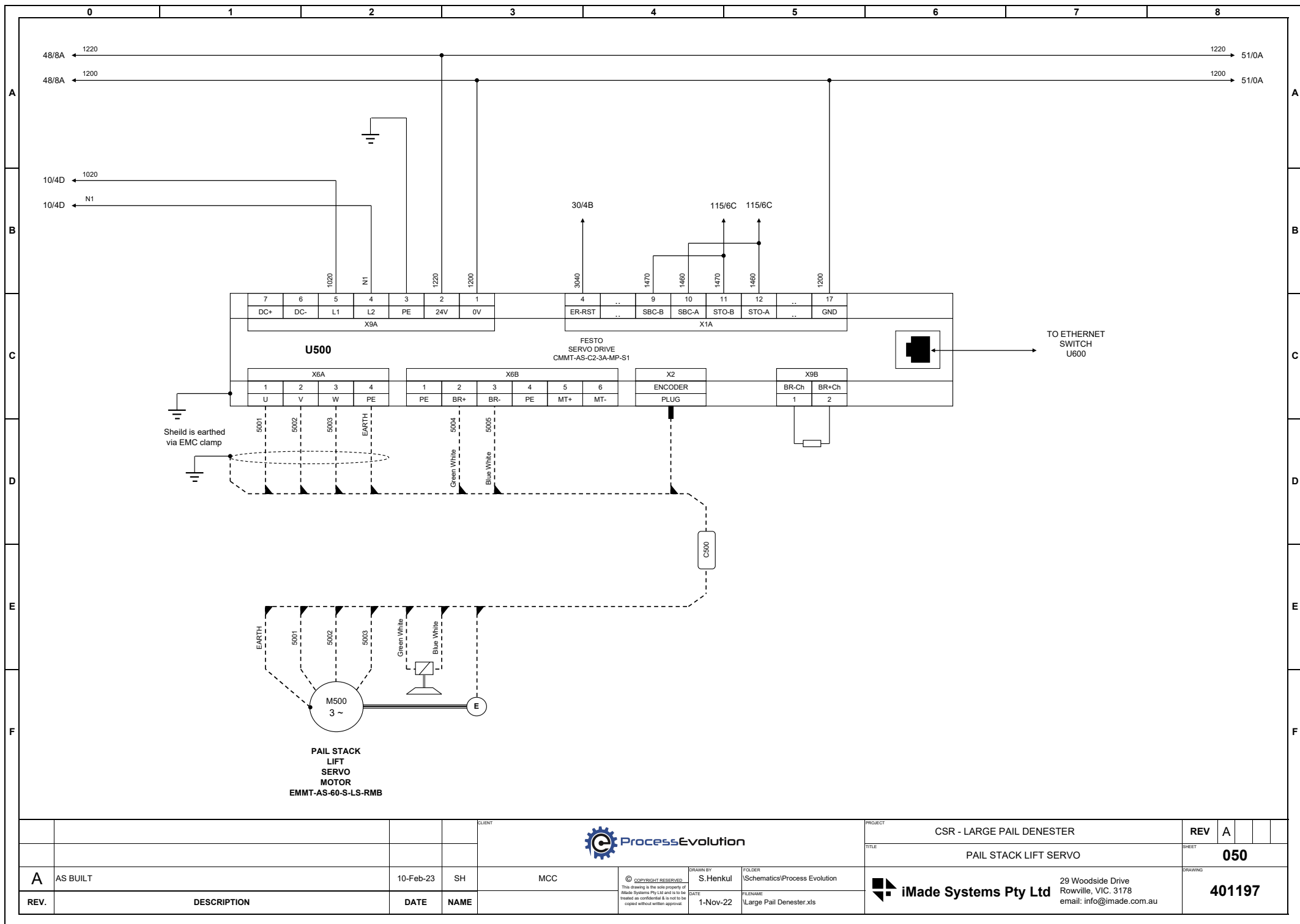


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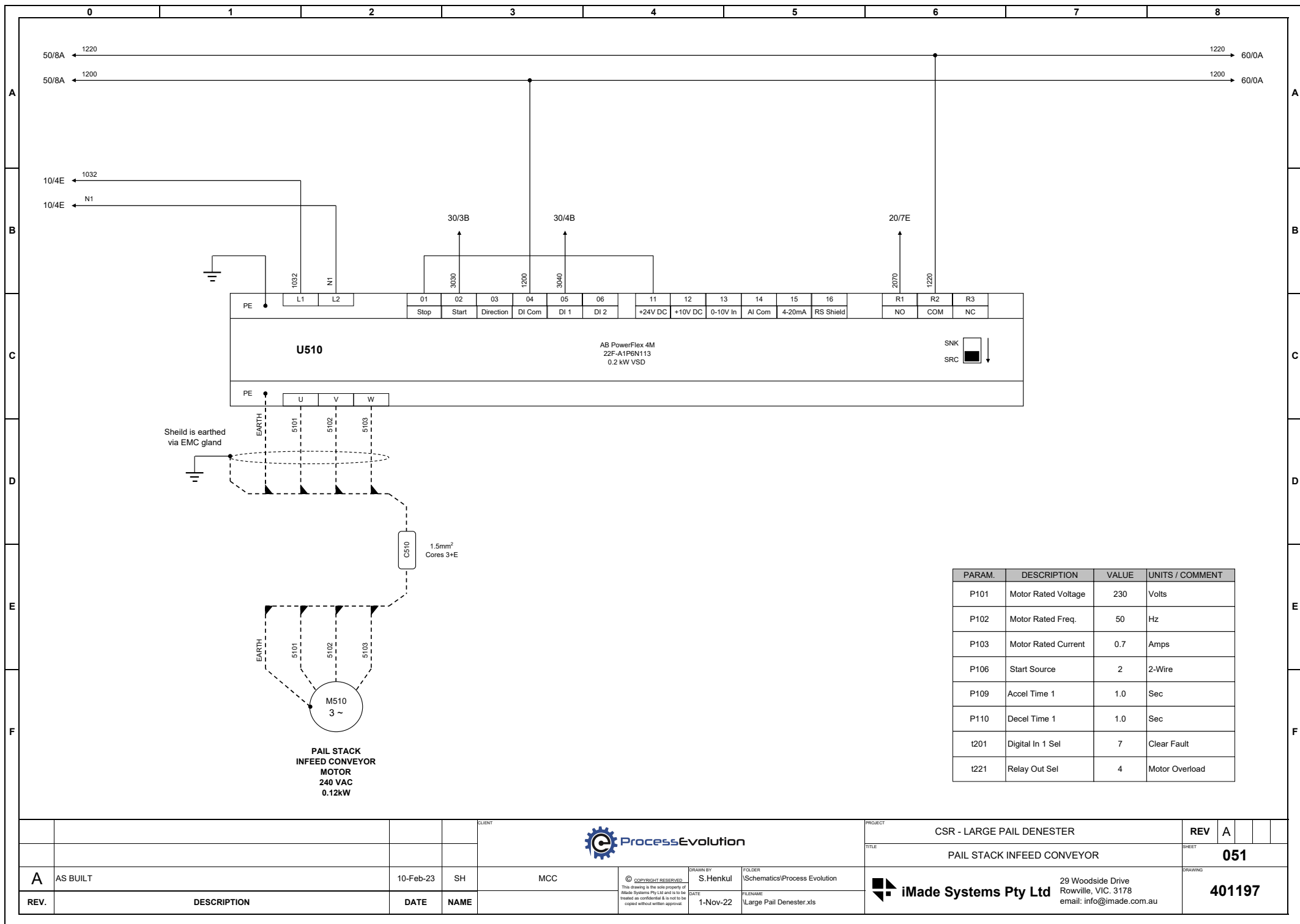
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TITLE	PAIL STACK LIFT SERVO	SHEET	050		
DRAWING					

REV.	DESCRIPTION	DATE	NAME
A	AS BUILT	10-Feb-23	SH

CLIENT	MCC
DRAWN BY	S.Henkul
DATE	1-Nov-22
FOLDER	ISchematics\Process Evolution
FILENAME	Large Pail Denester.xls

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FILENAME  
Large Pail Denester.xls



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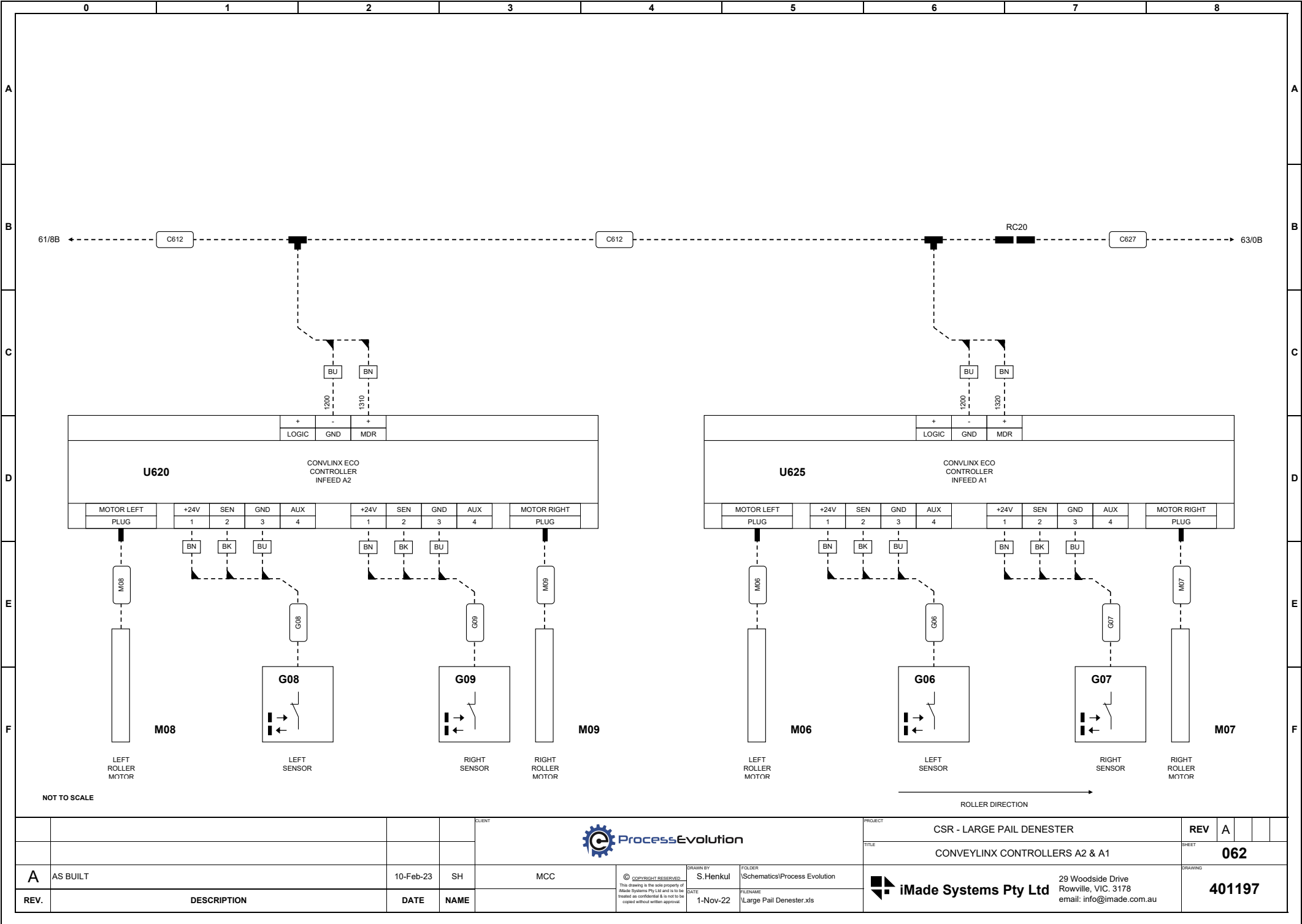
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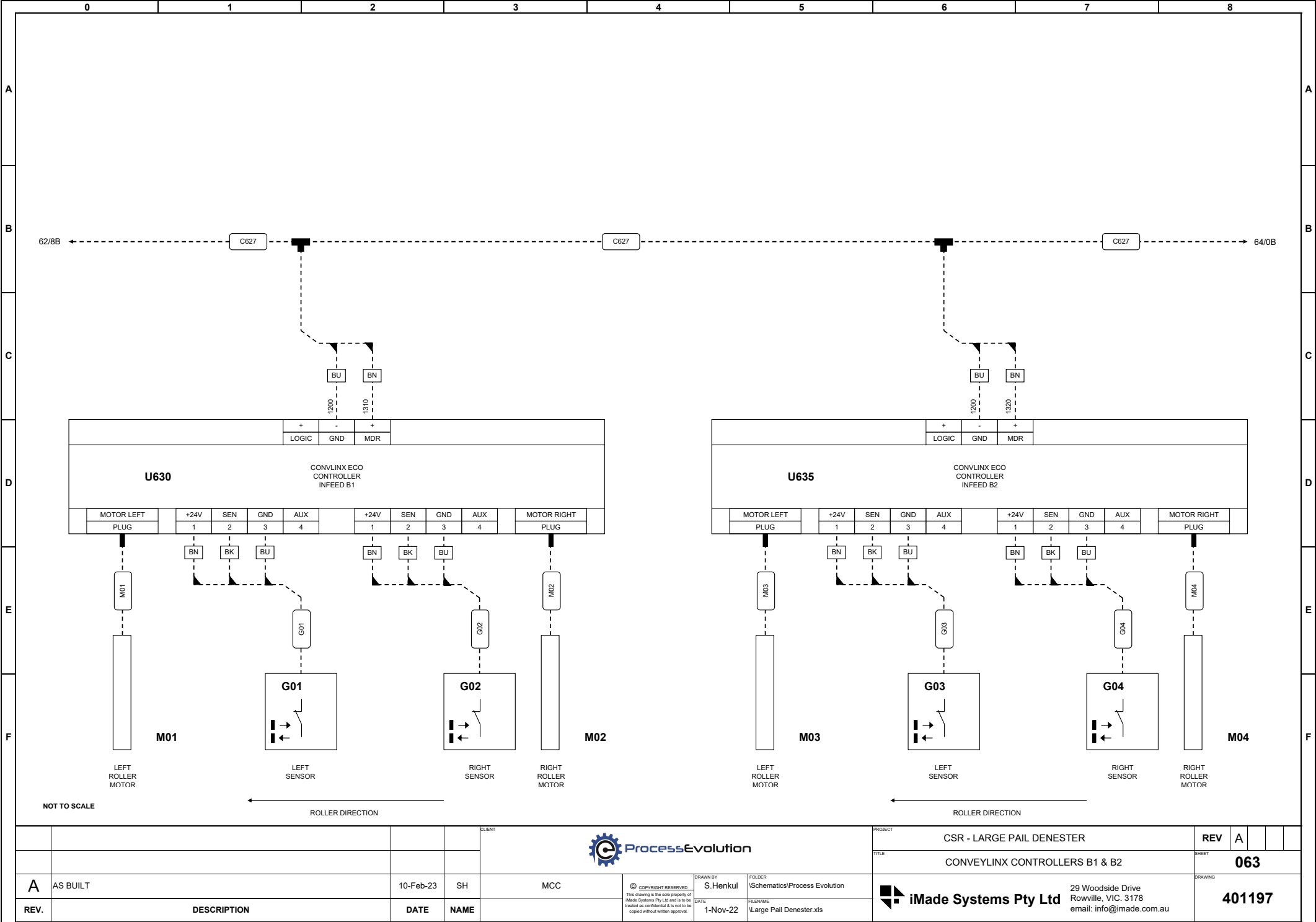
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DRAWING 401197

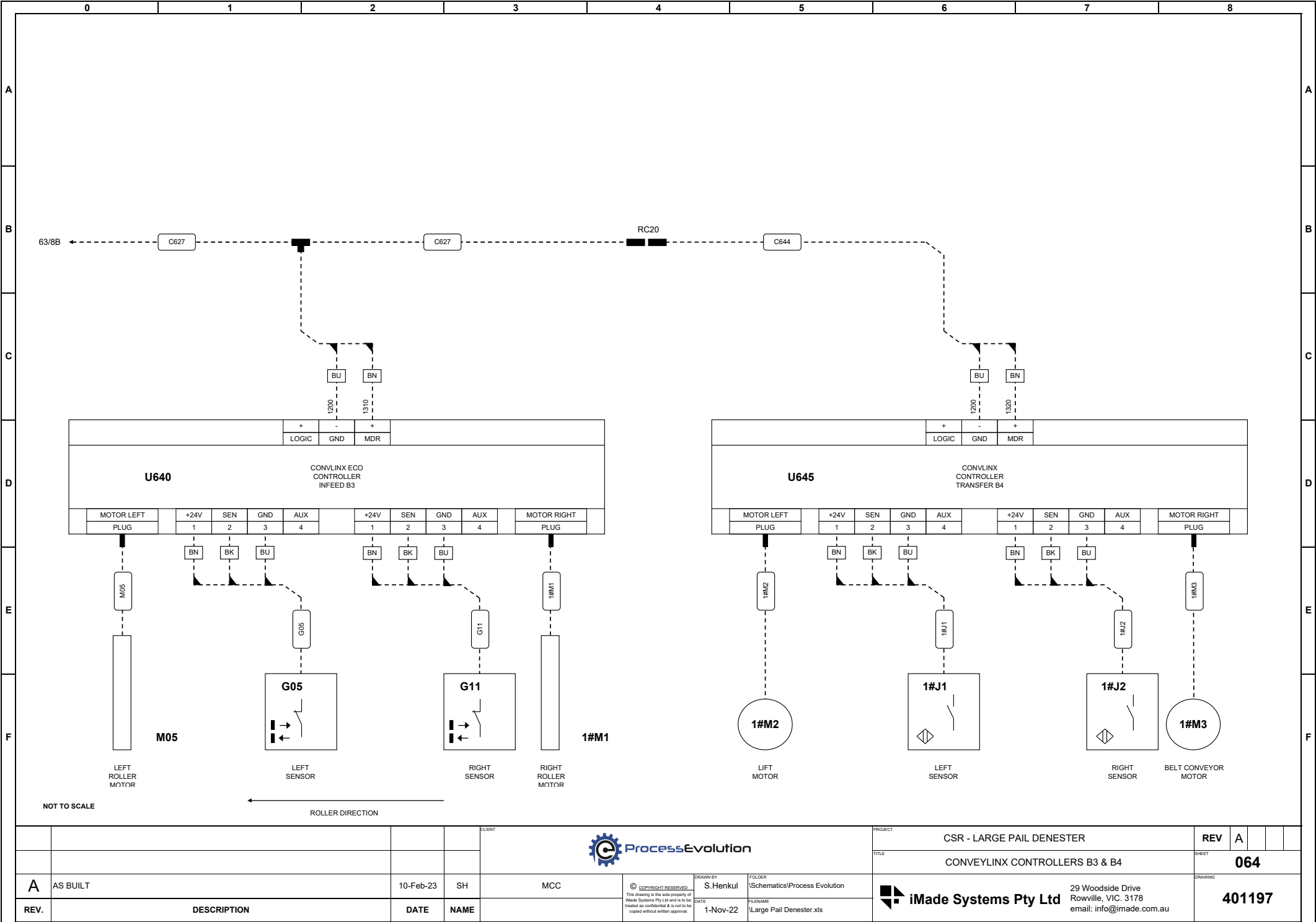












PROJECT	CSR - LARGE PAIL DENESTER			REV	A		
TITLE	CONVEYLINX CONTROLLERS B3 & B4			SHEET	064		
DRAWN BY	S.Henkul			DRAWING	401197		
FOLDER	ISchematics\Process Evolution						
FILENAME	Large Pail Denester.xls						
DATE	1-Nov-22						



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