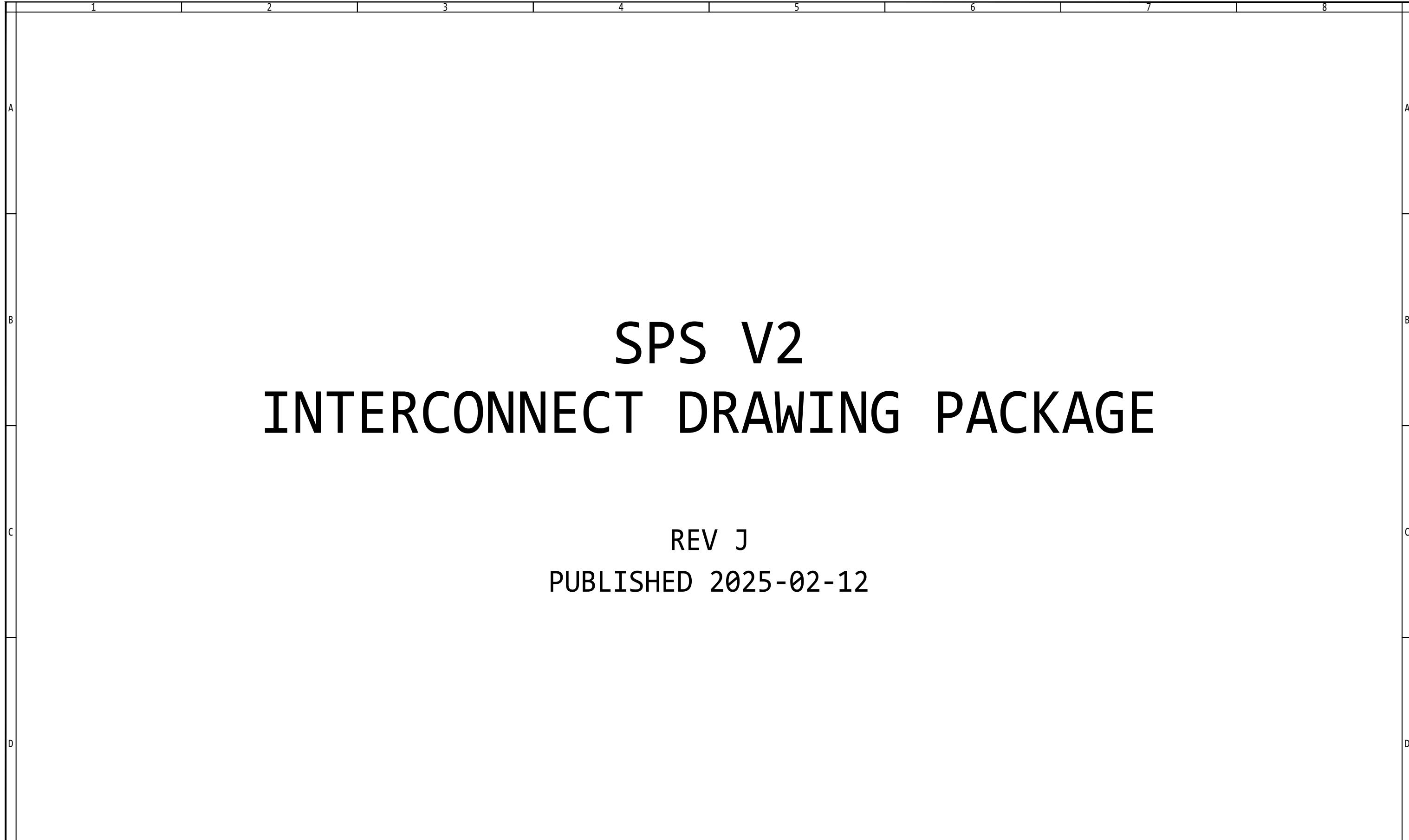
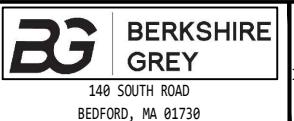


1 2 3 4 5 6 7 8



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES	 BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-02-07	SPS V2 INTERCONNECT DRAWING PACKAGE TITLE PAGE	REV J	SECT.	OVERVIEW	JOB# BG 117746
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES			SCALE N/A			PREV.	0	DWG SPS-00
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES			DRAWN TFP			SHEET	1	
REV	DATE	ENGR.	DESCRIPTION			APPROVED			NEXT	1	

	1	2	3	4	5	6	7	8
A	<p>000 DOCUMENT PACKAGE OVERVIEW</p> <p>0 Title page</p> <p>1 Table of contents</p> <p>2 Cable reference</p> <p>3 Cable reference</p> <p>4 Cable reference</p> <p>5 Cable reference</p> <p>6 Cable reference</p> <p>010 FACILITY POWER WIRING</p> <p>10 Facility power wiring - overview</p> <p>11 System cabinet 480VAC power from facility - wiring</p> <p>12 4-span 480VAC power - wiring</p> <p>13 4-span logic power - wiring</p> <p>14 Slide motor 480VAC power - wiring</p> <p>020 CLEATED CONVEYOR MOTORS</p> <p>20 Cleated conveyor motors - overview</p> <p>21 Cleated conveyor motor wiring - side A</p> <p>22 Cleated conveyor motor wiring - side B</p> <p>23 Homing sensor wiring - both sides</p> <p>030 OVERFULL LIGHT CURTAINS</p> <p>30 Overfull light curtains - overview</p> <p>31 Overfull light curtain wiring - side A</p> <p>32 Overfull light curtain wiring - side B</p> <p>33 Overfull light curtain wiring - A1/B1 TX</p> <p>040 PLACE LIGHT CURTAINS</p> <p>40 Place light curtains - overview</p> <p>41 Place light curtains - wiring</p> <p>050 E-STOP PULL CORDS</p> <p>50 E-stop pull cords - overview</p> <p>51 E-stop pull cords wiring - side A</p> <p>52 E-stop pull cords wiring - side B</p> <p>53 E-stop pull cords - reference</p> <p>060 HMI</p> <p>60 HMIs - overview</p> <p>61 Pick station HMI - wiring</p> <p>62 Aisle HMI - wiring</p> <p>080 JOB COMPLETE BUTTONS</p> <p>80 Job complete buttons - wiring</p> <p>090 CONDUCTIVE RAILS</p> <p>90 Conductive rails - overview</p> <p>91 Conductive rail wiring - power - side A</p> <p>92 Conductive rail wiring - terminating resistor - side A</p> <p>93 Conductive rail wiring - power - side B</p> <p>94 Conductive rail wiring - terminating resistor - side B</p>	<p>100 STACK LIGHTS</p> <p>100 Stack lights - overview</p> <p>101 Pick station stack light - wiring</p> <p>102 Aisle stack light - wiring</p> <p>110 E-STOP BUTTONS</p> <p>110 Pick station E-stop buttons - wiring</p> <p>120 AXIS CAMERA</p> <p>120 Pick station axis camera - wiring</p> <p>130 SLIDE MOTORS</p> <p>130 Slide motors - overview</p> <p>131 Slide motor wiring - side A</p> <p>132 Slide motor wiring - side B</p> <p>133 Braking resistor wiring - side A</p> <p>134 Braking resistor wiring - side B</p> <p>140 SHUTTLES</p> <p>140 Shuttles - overview</p> <p>141 Optional - Shuttle wiring - side A with smart bucket</p> <p>142 Optional - Shuttle wiring - side B with smart bucket</p> <p>143 Optional - Bucket sensor wiring - side A</p> <p>144 Optional - Bucket sensor wiring - side B</p> <p>145 Shuttle power box wiring - side A</p> <p>146 Shuttle power box wiring - side B</p> <p>147 Optional - Bucket sensor wiring - reference</p> <p>148 Optional - Shuttle wiring - side A without smart bucket</p> <p>149 Optional - Shuttle wiring - side B without smart bucket</p> <p>150 BARCODE SCANNERS</p> <p>150 Barcode scanners - overview</p> <p>151 Barcode scanner wiring - side A</p> <p>152 Barcode scanner wiring - side B</p> <p>153 Barcode scanner wiring - donor</p> <p>160 NETWORK SWITCHES</p> <p>160 Juniper network switch - wiring</p> <p>161 Unmanaged network switch - wiring</p> <p>170 DOOR INTERLOCKS</p> <p>170 Gate interlocks - overview</p> <p>171 Gate interlocks wiring - side A</p> <p>172 Gate interlocks wiring - side B</p> <p>180 SKU CONFIRMATION SCANNER (OPTIONAL)</p> <p>180 Optional - SKU confirmation scanner wiring</p>	<p>A</p> <p>B</p> <p>B</p> <p>C</p> <p>C</p> <p>D</p>					

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES	 <b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY.	DATE 2025-02-07	SPS V2 INTERCONNECT DRAWING PACKAGE TABLE OF CONTENTS	REV	SECT.	OVERVIEW	JOB# BG 117746
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES		SCALE N/A	PREV.		0			
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES		DRAWN TFP	SHEET		1			
REV	DATE	ENGR.	DESCRIPTION		APPROVED	NEXT		2	DWG	SPS-01	

Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #
CBL-11-1	Flying	Facility	Flying	Cabinet	N/A	Facility	n/a
CBL-12-1	Flying 4-C	Cabinet	Flying	4-span A	TBD	4-Span Mfr.	n/a
CBL-12-2	Flying 4-C	Cabinet	Flying	4-span B	TBD	4-Span Mfr.	n/a
CBL-13-1	Flying 2-C	Cabinet	Flying	4-span A	TBD	4-Span Mfr.	n/a
CBL-13-2	Flying 2-C	Cabinet	Flying	4-span B	TBD	4-Span Mfr.	n/a
CBL-21-1	Flying 7-C	Cabinet	M16 A-CODE 7-PIN FEMALE	Cleated conveyor motor A	5m	Panel Vendor	107810
CBL-21-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Cleated conveyor motor A	5m	Panel Vendor	118003
CBL-21-4	M12 A-CODE 17-PIN MALE	Cleated conveyor motor A	Flying	Field wireable connector	1.5m	BG	106666
CBL-21-5	M12 D-CODE 4-PIN MALE	Unmanaged network switch	M12 D-CODE 4-PIN MALE	Cleated conveyor motor A	5m	BG	115136-050
CBL-22-1	Flying 7-C	Cabinet	M16 A-CODE 7-PIN FEMALE	Cleated conveyor motor B	5m	Panel Vendor	107810
CBL-22-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Cleated conveyor motor B	5m	Panel Vendor	118003
CBL-22-4	M12 A-CODE 17-PIN MALE	Cleated conveyor motor B	Flying	Field wireable connector	1.5m	BG	106666
CBL-22-5	M12 D-CODE 4-PIN MALE	Unmanaged network switch	M12 D-CODE 4-PIN MALE	Cleated conveyor motor B	5m	BG	115136-050
CBL-31-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-31-3	20m	Panel Vendor	118004
CBL-31-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-31-4	10m	Panel Vendor	118006
CBL-31-3	M12 A-CODE 5-PIN MALE	CBL-31-1	Keyence	Overfull light curtain A1 (rx)	0.3m	BG	106185
CBL-31-4	M12 A-CODE 5-PIN MALE	CBL-31-2	Keyence	Overfull light curtain A2 (rx)	0.3m	BG	106185
CBL-31-5	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-31-6	20m	Panel Vendor	118004
CBL-31-6	M12 A-CODE 5-PIN MALE	CBL-31-5	Keyence	Overfull light curtain A2 (tx)	0.3m	BG	106185
CBL-32-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-32-3	20m	Panel Vendor	118004
CBL-32-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-32-4	10m	Panel Vendor	118006
CBL-32-3	M12 A-CODE 5-PIN MALE	CBL-32-1	Keyence	Overfull light curtain B1 (rx)	0.3m	BG	106185
CBL-32-4	M12 A-CODE 5-PIN MALE	CBL-32-2	Keyence	Overfull light curtain B2 (rx)	0.3m	BG	106185
CBL-32-5	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-32-6	20m	Panel Vendor	118004
CBL-32-6	M12 A-CODE 5-PIN MALE	CBL-32-5	Keyence	Overfull light curtain B2 (tx)	0.3m	BG	106185
CBL-33-1	Flying 4-C	Cabinet	M12 A-CODE 4-PIN FEMALE	CBL-33-3	10m	Panel Vendor	111791-100
CBL-33-2	Flying 4-C	Cabinet	M12 A-CODE 4-PIN FEMALE	CBL-33-4	10m	Panel Vendor	111791-100
CBL-33-3	M12 A-CODE 5-PIN MALE	CBL-33-5	Keyence	Overfull light curtain A1 (tx)	0.3m	BG	106185
CBL-33-4	M12 A-CODE 5-PIN MALE	CBL-33-6	Keyence	Overfull light curtain B1 (tx)	0.3m	BG	106185
CBL-41-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-41-3	10m	Panel Vendor	118006

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H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES		SCALE N/A	PREV.		1			
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES		DRAWN TFP	SHEET		2			
REV	DATE	ENGR.	DESCRIPTION		APPROVED	J		NEXT	3	DWG SPS-02	

Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #
CBL-41-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	CBL-41-4	10m	Panel Vendor	118006
CBL-41-3	M12 A-CODE 5-PIN MALE	CBL-41-1	Keyence	Place light curtain A (rx)	0.3m	BG	106185
CBL-41-4	M12 A-CODE 5-PIN MALE	CBL-41-2	Keyence	Place light curtain B (rx)	0.3m	BG	106185
CBL-41-5	Keyence	Place light curtain A (rx)	Keyence	Place light curtain A (tx)	1m	BG	109724
CBL-41-6	Keyence	Place light curtain B (rx)	Keyence	Place light curtain B (tx)	1m	BG	109724
CBL-51-1	Flying 6-C	Cabinet	Flying 6-C	E-stop pull cord base A1	20m	Panel Vendor	118008
CBL-51-2	Flying 6-C	Cabinet	Flying 6-C	E-stop pull cord base A2	20m	Panel Vendor	118008
CBL-52-1	Flying 6-C	Cabinet	Flying 6-C	E-stop pull cord base B1	20m	Panel Vendor	118008
CBL-52-2	Flying 6-C	Cabinet	Flying 6-C	E-stop pull cord base B2	20m	Panel Vendor	118008
CBL-61-1	RJ45	Juniper network switch	RJ45	Pick station HMI	10m	BG	115219-100
CBL-61-2	Flying 2-C	Cabinet	Flying 2-C	Pick station HMI	10m	Panel Vendor	118009
CBL-62-1	RJ45	Juniper network switch	RJ45	Aisle HMI	20m	BG	115219-200
CBL-62-2	Flying 2-C	Cabinet	Flying 2-C	Aisle HMI	20m	Panel Vendor	118009
CBL-80-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Job complete button A	5m	Panel Vendor	118011
CBL-80-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Job complete button B	5m	Panel Vendor	118011
CBL-91-1	Flying 3-C	Cabinet	Flying 3-C	Conductive rails A	10m	Panel Vendor	118012
CBL-92-1	Flying 3-C	Conductive rails A	Flying 3-C	Terminating resistor box A	3m	BG	116790
CBL-93-1	Flying 3-C	Cabinet	Flying 3-C	Conductive rails B	10m	Panel Vendor	118012
CBL-94-1	Flying 3-C	Conductive rails B	Flying 3-C	Terminating resistor box B	3m	BG	116790
CBL-101-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Stack light	1m	Panel Vendor	118013
CBL-102-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Aisle stack light	20m	Panel Vendor	118004
CBL-110-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	E-stop push button A	5m	Panel Vendor	118011
CBL-110-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	E-stop push button B	10m	Panel Vendor	118006
CBL-121-1	RJ45	Juniper network switch	RJ45	Axis camera	20m	BG	115219-200
CBL-131-1	M12 D-CODE 4-PIN MALE	Unmanaged network switch	M12 D-CODE 4-PIN MALE	Slide motor A	10m	BG	115136-100
CBL-131-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Slide motor A	10m	Panel Vendor	118006
CBL-131-3	Flying 6-C	Cabinet	M23 6-PIN FEMALE	Slide motor A	10m	Panel Vendor	114956-100
CBL-131-4	M12 A-CODE 17-PIN MALE	Slide motor A	M8 A-CODE 3-PIN FEMALE	Slide A homing sensor	2m	BG	121991
CBL-132-1	M12 D-CODE 4-PIN MALE	Unmanaged network switch	M12 D-CODE 4-PIN MALE	Slide motor B	10m	BG	115136-100
CBL-132-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Slide motor B	10m	Panel Vendor	118006

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H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES		SCALE N/A	PREV.		2			
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES		DRAWN TFP	SHEET		3			
REV	DATE	ENGR.	DESCRIPTION		APPROVED	NEXT		4	DWG	SPS-03	

1	2	3	4	5	6	7	8	
A	Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #
	CBL-132-3	Flying 6-C	Cabinet	M23 6-PIN FEMALE	Slide motor B	10m	Panel Vendor	114956-100
B	CBL-132-4	M12 A-CODE 17-PIN MALE	Slide motor B	M8 A-CODE 3-PIN FEMALE	Slide B homing sensor	2m	BG	121991
	CBL-133-1	Flying 2-C	Slide motor A	Flying 2-C	Braking resistor A	11ft	BG	114382
	CBL-133-2	Flying 2-C	Cabinet	Flying 2-C	Braking resistor A	10m	Panel Vendor	116192
	CBL-134-1	Flying 2-C	Slide motor B	Flying 2-C	Braking resistor B	11ft	BG	114382
	CBL-134-2	Flying 2-C	Cabinet	Flying 2-C	Braking resistor B	10m	Panel Vendor	116192
	CBL-141-1	M12 A-CODE 5-PIN MALE	Shuttle power box A	M12 A-CODE 5-PIN FEMALE	CBL-141-5	1.5m	BG	111865-015
	CBL-141-2	M12 D-CODE 4-PIN MALE	Kicker A (CN2)	M12 D-CODE 4-PIN MALE	Ejector A (CN3)	2m	BG	115136-020
	CBL-141-3	M12 D-CODE 4-PIN MALE	Shuttle power box A	M12 D-CODE 4-PIN MALE	Ejector A (CN2)	2m	BG	115136-020
	CBL-141-4	M12 A-CODE 5-PIN MALE	Shuttle power box A	M12 A-CODE 5-PIN FEMALE	Kicker A (power)	0.6m	BG	116239-006
	CBL-141-5	M12 A-CODE 5-PIN MALE	CBL-141-1	2x M12 A-CODE 5-PIN FEMALE	Ejector A (power) / CBL-141-7	0.2m	BG	122360
	CBL-141-6	M12 D-CODE 4-PIN MALE	Kicker A (CN3)	M12 D-CODE 4-PIN MALE	CBL-141-8 (RJ45-M12 adapter)	1m	BG	122362
	CBL-141-7	M12 A-CODE 5-PIN MALE	CBL-141-5	M12 A-CODE 5-PIN FEMALE	CBL-143-1	1.12m	BG	124717
	CBL-141-8	M12 D-CODE 4-PIN FEMALE	CBL-141-6	M12 D-CODE 4-PIN FEMALE	CBL-143-2	1m	BG	124714
	CBL-142-1	M12 A-CODE 5-PIN MALE	Shuttle power box B	M12 A-CODE 5-PIN FEMALE	CBL-142-5	1.5m	BG	111865-015
	CBL-142-2	M12 D-CODE 4-PIN MALE	Kicker B (CN2)	M12 D-CODE 4-PIN MALE	Ejector B (CN3)	2m	BG	115136-020
	CBL-142-3	M12 D-CODE 4-PIN MALE	Shuttle power box B	M12 D-CODE 4-PIN MALE	Ejector B (CN2)	2m	BG	115136-020
	CBL-142-4	M12 A-CODE 5-PIN MALE	Shuttle power box B	M12 A-CODE 5-PIN FEMALE	Kicker B (power)	0.6m	BG	116239-006
	CBL-142-5	M12 A-CODE 5-PIN MALE	CBL-142-1	2x M12 A-CODE 5-PIN FEMALE	Ejector B (power) / CBL-142-7	0.2m	BG	122360
	CBL-142-6	M12 D-CODE 4-PIN MALE	Kicker B (CN3)	M12 D-CODE 4-PIN MALE	CBL-142-8 (RJ45-M12 adapter)	1m	BG	122362
C	CBL-142-7	M12 A-CODE 5-PIN MALE	CBL-142-5	M12 A-CODE 5-PIN FEMALE	CBL-144-1	1.12m	BG	124717
	CBL-142-8	M12 D-CODE 4-PIN FEMALE	CBL-142-6	M12 D-CODE 4-PIN FEMALE	CBL-144-2	1m	BG	124714
	CBL-143-1	M12 A-CODE 5-PIN MALE	CBL-141-7	M12 A-CODE 5-PIN FEMALE	DXMR90-4K	0.91m	BG	122361
	CBL-143-2	M12 D-CODE 4-PIN MALE	CBL-141-8 (RJ45-M12 adapter)	M12 D-CODE 4-PIN MALE	DXMR90-4K	1m	BG	122362
	CBL-143-3	M12 A-CODE 4-PIN MALE	DXMR90-4K	2x M12 A-CODE 4-PIN FEMALE	Lower left/right sensors	0.1m	BG	122359
	CBL-144-1	M12 A-CODE 5-PIN MALE	CBL-144-7	M12 A-CODE 5-PIN FEMALE	DXMR90-4K	0.91m	BG	122361
	CBL-144-2	M12 D-CODE 4-PIN MALE	CBL-144-8 (RJ45-M12 adapter)	M12 D-CODE 4-PIN MALE	DXMR90-4K	1m	BG	122362
	CBL-144-3	M12 A-CODE 4-PIN MALE	DXMR90-4K	2x M12 A-CODE 4-PIN FEMALE	Lower left/right sensors	0.1m	BG	122359
	CBL-145-1	Spade connector 1-C	Shuttle power box A	Flying 1-C	0V collector A	0.4m	Panel Vendor	115782
	CBL-145-2	Spade connector 1-C	Shuttle power box A	Flying 1-C	24V collector A	0.4m	Panel Vendor	115781
D								

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES	 <b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	DATE	2025-02-07	SPS V2  INTERCONNECT DRAWING PACKAGE  CABLE REFERENCE	REV J	SECT.	OVERVIEW	JOB# BG 117746
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES		SCALE	N/A			PREV.	3	
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES		DRAWN	TFP			SHEET	4	
REV	DATE	ENGR.	DESCRIPTION		APPROVED				NEXT	5	DWG SPS-04

Reference	Connector 1	Location 1	Connector 2	Location 2	Length	Owner	BG Part #
CBL-145-3	Spade connector 1-C	Shuttle power box A	Flying 1-C	72V collector A	0.4m	Panel Vendor	115781
CBL-146-1	Spade connector 1-C	Shuttle power box B	Flying 1-C	0V collector B	0.4m	Panel Vendor	115782
CBL-146-2	Spade connector 1-C	Shuttle power box B	Flying 1-C	24V collector B	0.4m	Panel Vendor	115781
CBL-146-3	Spade connector 1-C	Shuttle power box B	Flying 1-C	72V collector B	0.4m	Panel Vendor	115781
CBL-151-1	Flying 12-C	Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner A1	10m	Panel Vendor	118015
CBL-151-2	Flying 12-C	Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner A2	10m	Panel Vendor	118015
CBL-151-3	RJ45	Juniper network switch	M12 D-CODE 4-PIN MALE	Induct barcode scanner A1	10m	BG	115138-100
CBL-151-4	RJ45	Juniper network switch	M12 D-CODE 4-PIN MALE	Induct barcode scanner A2	10m	BG	115138-100
CBL-152-1	Flying 12-C	Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner B1	10m	Panel Vendor	118015
CBL-152-2	Flying 12-C	Cabinet	M12 A-CODE 12-PIN FEMALE	Induct barcode scanner B2	10m	Panel Vendor	118015
CBL-152-3	RJ45	Juniper network switch	M12 D-CODE 4-PIN MALE	Induct barcode scanner B1	10m	BG	115138-100
CBL-152-4	RJ45	Juniper network switch	M12 D-CODE 4-PIN MALE	Induct barcode scanner B2	10m	BG	115138-100
CBL-153-1	Flying 17-C	Cabinet	M12 A-CODE 17-PIN FEMALE	Donor barcode scanner	10m	Panel Vendor	118016
CBL-153-2	RJ45	Juniper network switch	M12 D-CODE 4-PIN MALE	Donor barcode scanner	10m	BG	115138-100
CBL-153-3	Flying 4-C	Cabinet	M8 A-CODE 4-PIN FEMALE	Hardware trigger photo-eye	5m	Panel Vendor	120452
CBL-160-1	L5-15P	Facility 120V service outlet	C13 FEMALE	Juniper network switch	15ft	BG	111381
CBL-160-2	RJ45	Juniper network switch	M12 D-CODE 4-PIN MALE	Unmanaged network switch	10m	BG	115138-100
CBL-160-3	RJ45	Juniper network switch	TBD	4-Span control card side A	TBD	4-Span Mfr.	n/a
CBL-160-4	RJ45	Juniper network switch	TBD	4-Span control card side B	TBD	4-Span Mfr.	n/a
CBL-161-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Unmanaged network switch	3m	Panel Vendor	118087
CBL-161-2	RJ45	Cabinet	M12 D-CODE 4-PIN MALE	Unmanaged network switch	1m	Panel Vendor	122362
CBL-161-3	RJ45	Cabinet	M12 D-CODE 4-PIN MALE	Unmanaged network switch	1m	Panel Vendor	122362
CBL-171-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Door interlock A1	20m	Panel Vendor	118004
CBL-171-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Door interlock A2	20m	Panel Vendor	118004
CBL-172-1	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Door interlock B1	20m	Panel Vendor	118004
CBL-172-2	Flying 5-C	Cabinet	M12 A-CODE 5-PIN FEMALE	Door interlock B2	20m	Panel Vendor	118004
CBL-180-1	RJ45	Barcode scanner	USB-A / Barrel Jack FEMALE	HMI / CBL-180-2	15ft	BG	120552
CBL-180-2	Barrel Jack MALE	CBL-180-1	IEC 320-C14	12V power block	2m	BG	120551
CBL-180-3	IEC 320-C13	12V power block	NEMA 5-15P	120VAC facility service outlet	2.3m	BG	120551

D

A

B

C

D

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



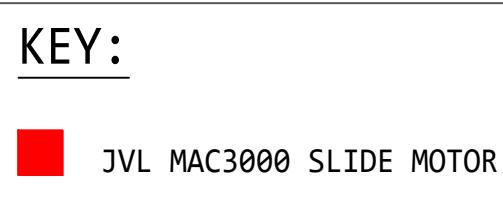
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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

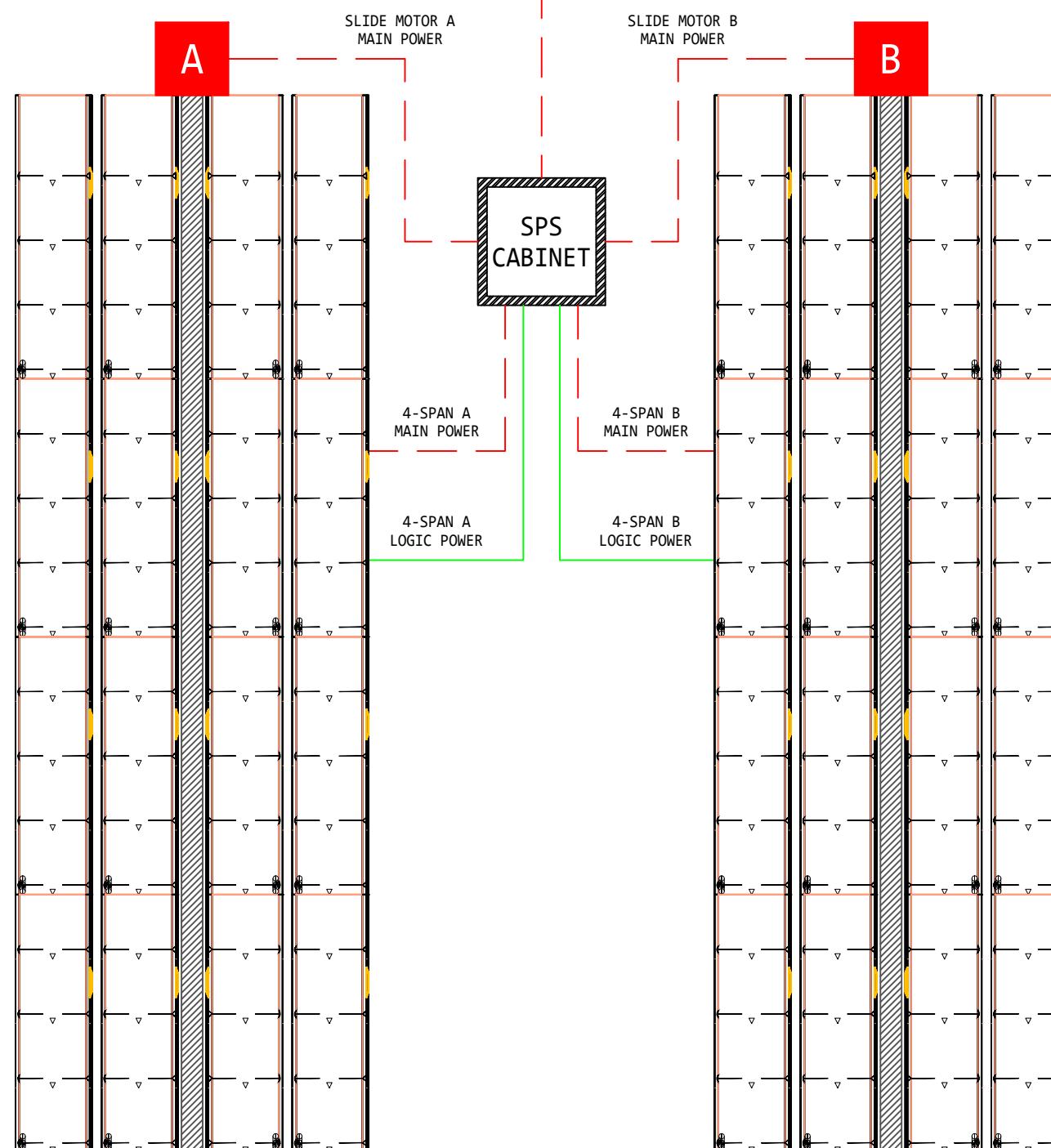
SPS V2  
INTERCONNECT DRAWING PACKAGE  
CABLE REFERENCE

REV	SECT.	OVERVIEW	JOB#
	PREV.	4	BG 117746
J	SHEET	5	SPS-05
	NEXT		

1 2 3 4 5 6 7 8

FACILITY  
480VAC DROP

SIDE A



SIDE B

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



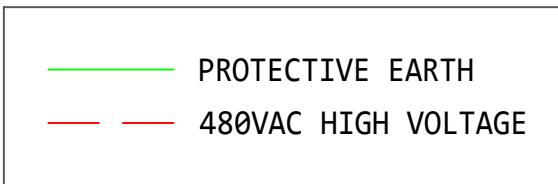
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
FACILITY POWER WIRING - OVERVIEW

REV J  
SECT. OVERVIEW  
PREV. 10  
SHEET 11  
NEXT 11  
JOB# BG 117746  
DWG SPS-10

A



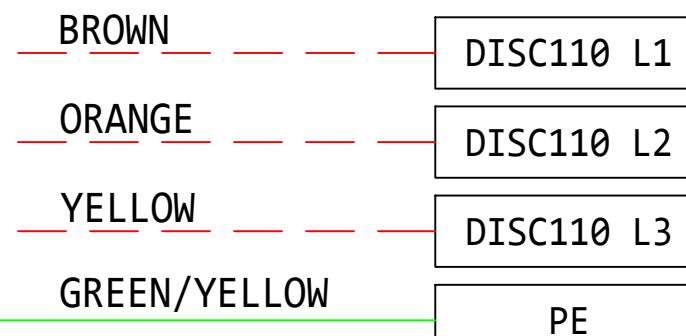
A

B

FACILITY  
480VAC DROP

4-CONDUCTOR SOOW CABLE  
CABLE ID: CBL-11-1

SPS CABINET



B

C

C

D

D

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



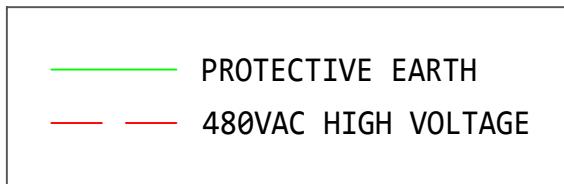
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
SYSTEM CABINET 480VAC POWER FROM FACILITY - WIRING

REV	SECT.	DETAIL	JOB#
PREV.	10		BG 117746
SHEET	11		
NEXT	12		DWG SPS-11

A



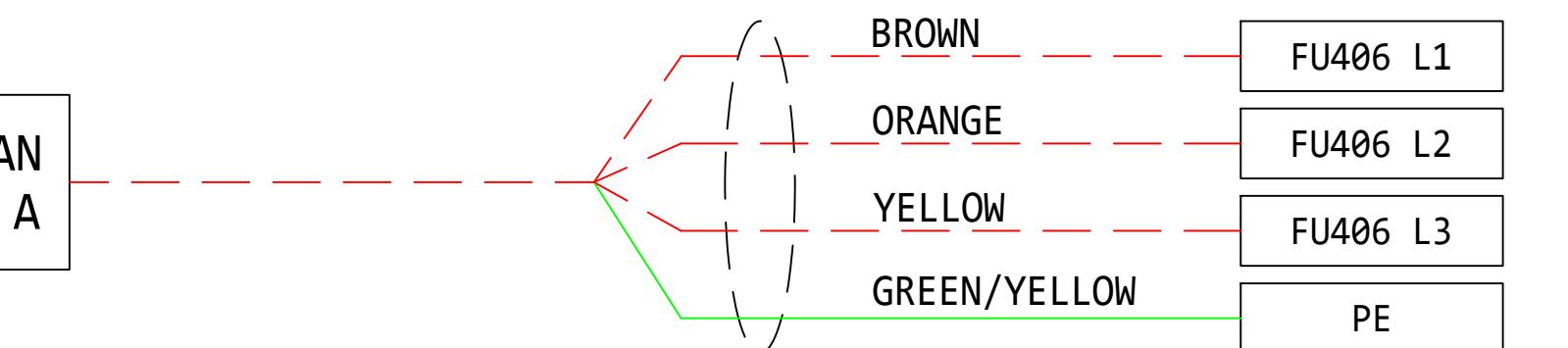
*NOTE: Each 480VAC phase terminal block is fused with a 6A fuse.*

A

B

4-SPAN  
SIDE A

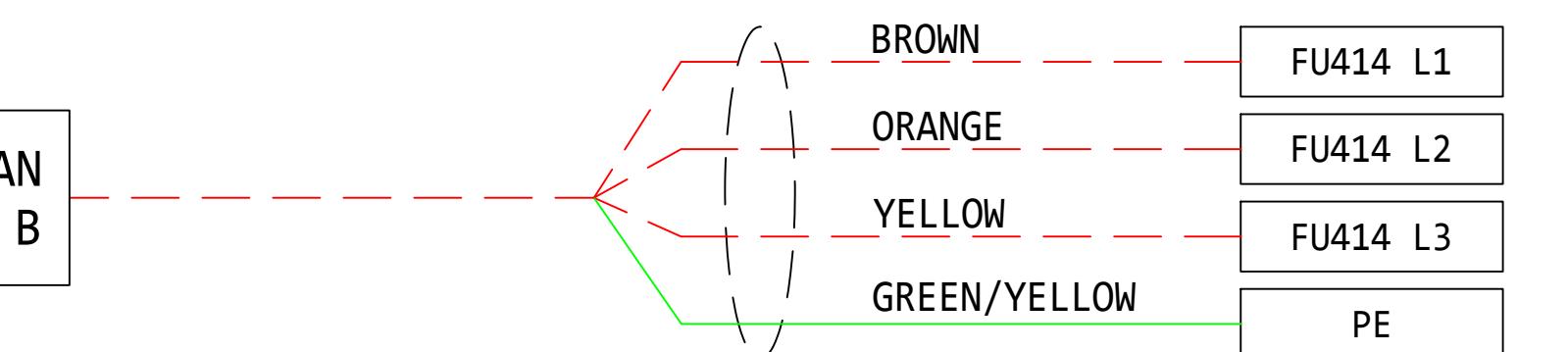
4-CONDUCTOR SOOW CABLE  
CABLE ID: CBL-12-1



C

4-SPAN  
SIDE B

4-CONDUCTOR SOOW CABLE  
CABLE ID: CBL-12-2



B

D

C

D

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



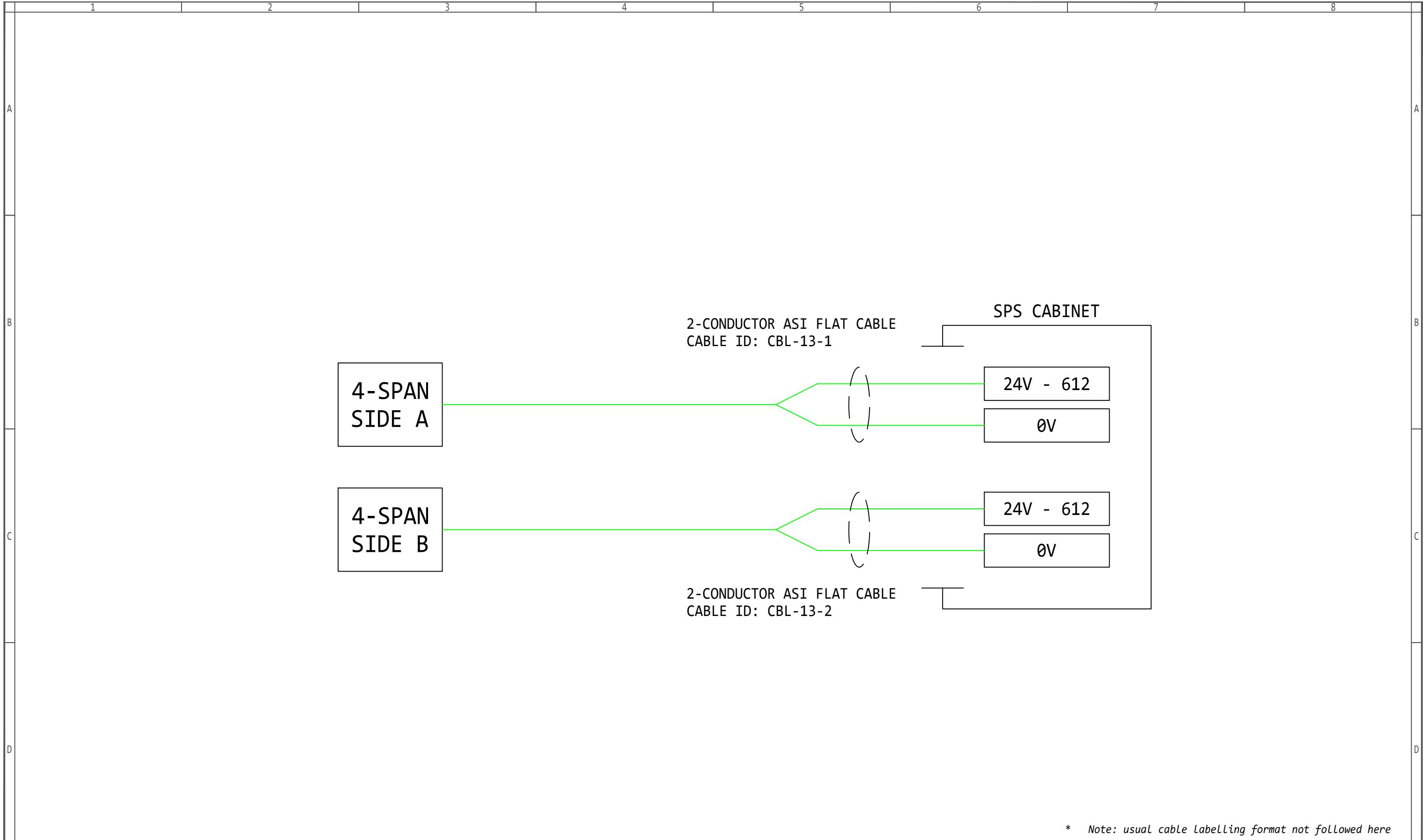
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
4-SPAN 480VAC POWER - WIRING

REV	SECT.	DETAIL	JOB#
J	PREV.	11	BG 117746
	SHEET	12	SPS-12
	NEXT	13	

1 2 3 4 5 6 7 8



\* Note: usual cable Labelling format not followed here

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



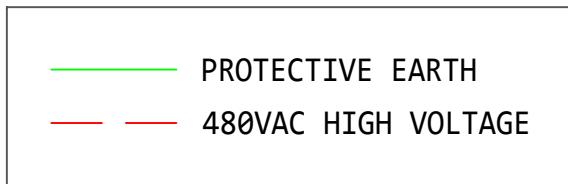
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
4-SPAN LOGIC POWER - WIRING

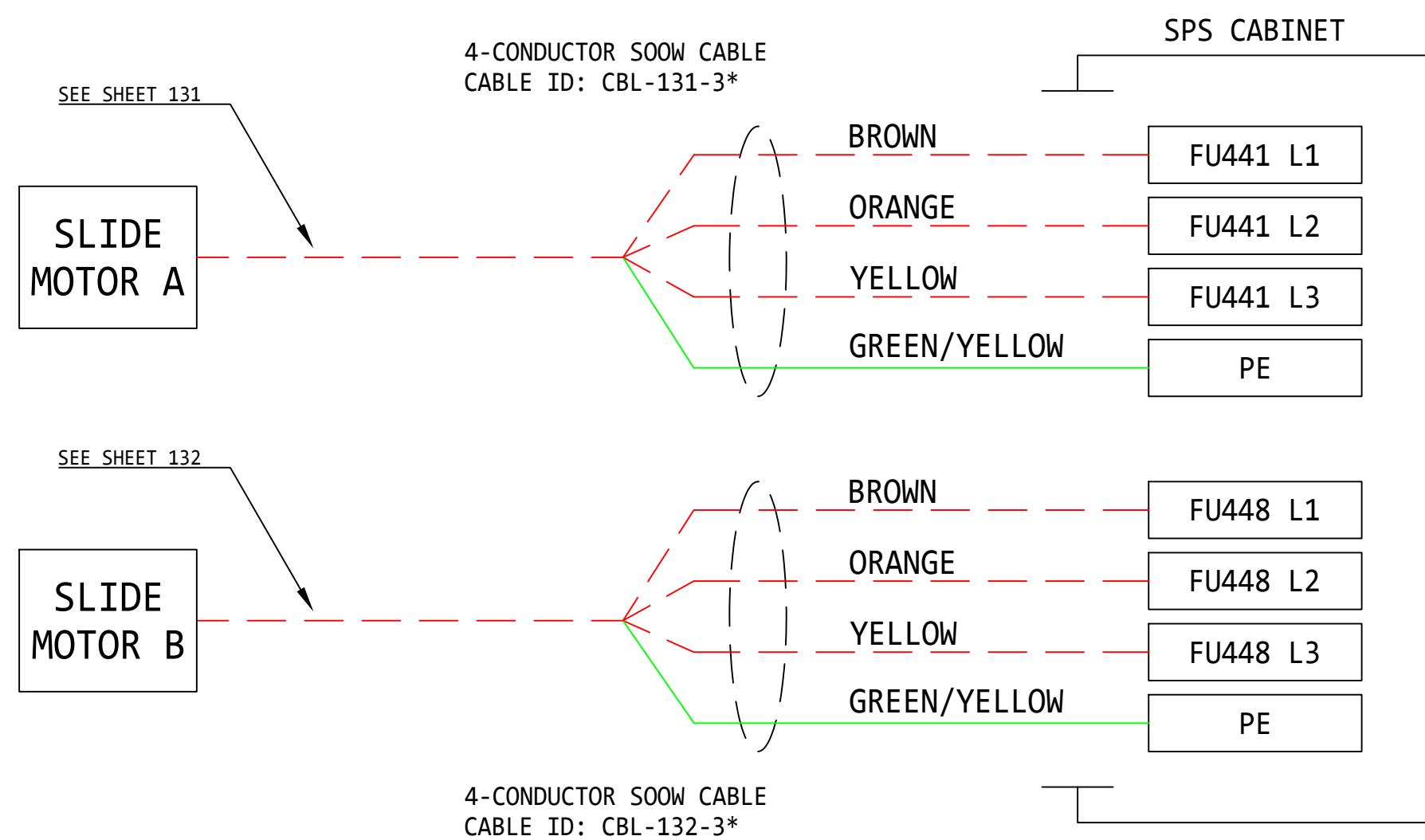
REV	SECT.	DETAIL	JOB#
	PREV.	12	BG 117746
J	SHEET	13	SPS-13
	NEXT	14	DWG

A



A

B



B

C

C

D

D

\* Note: usual cable Labelling format not followed here

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



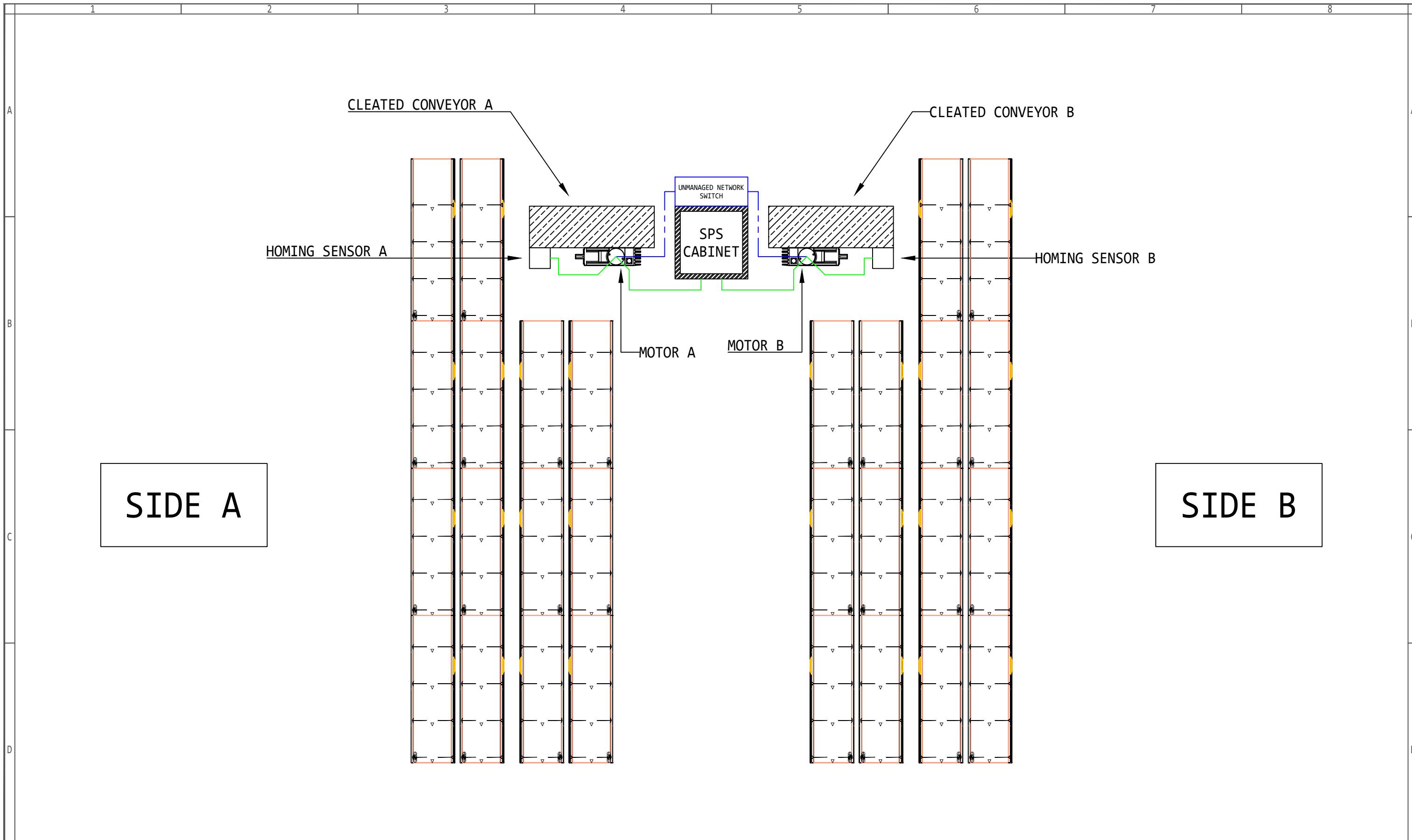
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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

**SPS V2**  
**INTERCONNECT DRAWING PACKAGE**  
**SLIDE MOTOR 480VAC POWER - WIRING**

REV	SECT.	DETAIL	JOB#
PREV.		13	BG 117746
SHEET		14	SPS-14
NEXT			DWG SPS-14

1 2 3 4 5 6 7 8



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

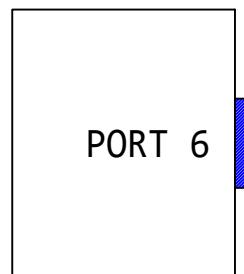
SPS V2  
INTERCONNECT DRAWING PACKAGE  
CLEATED CONVEYOR MOTORS - OVERVIEW

REV	SECT. OVERVIEW	JOB# BG 117746
J	SHEET 20	DWG SPS-20
	NEXT 21	

1 2 3 4 5 6 7 8

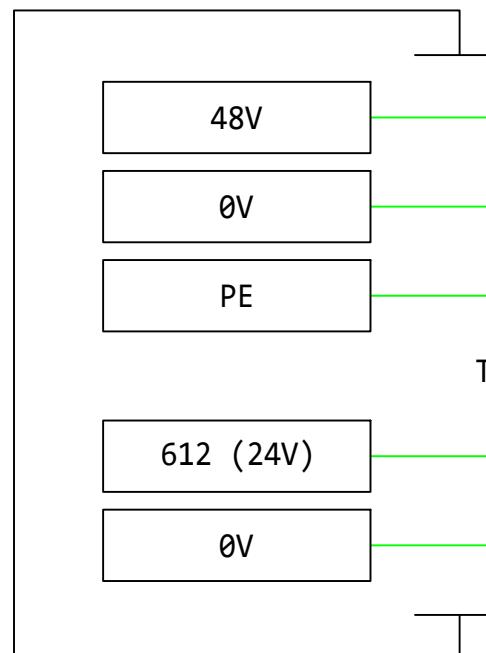
# SIDE A

UNMANAGED  
NETWORK SWITCH



M12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-21-5

SPS CABINET



TWIST WIRES TOGETHER AND FERRULE

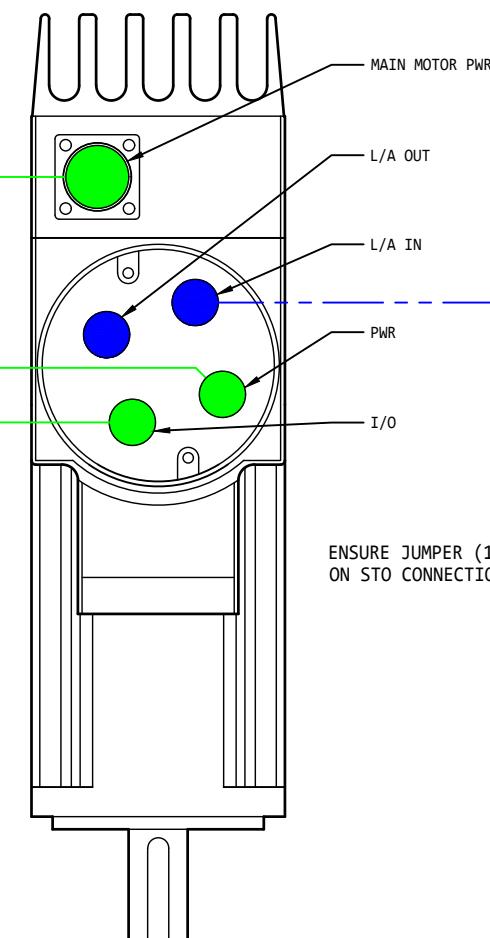
7-PIN M16 FEMALE to FLYING  
CABLE ID: CBL-21-1

RED  
RED  
RED  
BLACK  
BLACK  
BLACK  
GREEN/YELLOW

5-PIN M12 FEMALE to FLYING  
CABLE ID: CBL-21-2

BROWN  
WHITE  
BLUE  
BLACK  
GREY

MOTOR A  
JVL MAC402



ENSURE JUMPER (122221) IS INSTALLED  
ON STO CONNECTION.

TO HOMING SENSOR SIDE A  
(See SPS-023 for wiring details)

17-PIN M12 MALE to FLYING  
CABLE ID: CBL-21-4

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

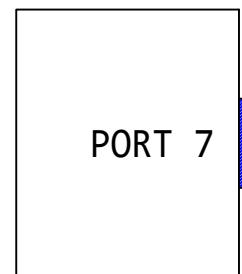
SPS V2  
INTERCONNECT DRAWING PACKAGE  
CLEATED CONVEYOR MOTOR WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	20	BG 117746
J	SHEET	21	SPS-21
	NEXT	22	DWG SPS-21

1 2 3 4 5 6 7 8

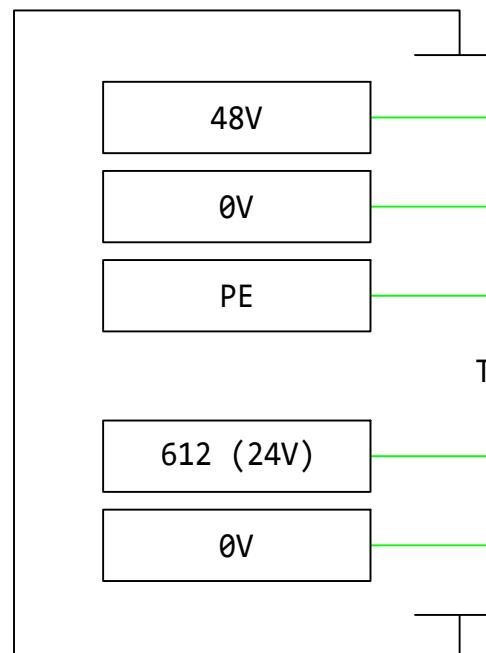
## SIDE B

UNMANAGED  
NETWORK SWITCH



M12 D-CODE MALE to M12 D-CODE MALE  
CABLE ID: CBL-22-5

SPS CABINET



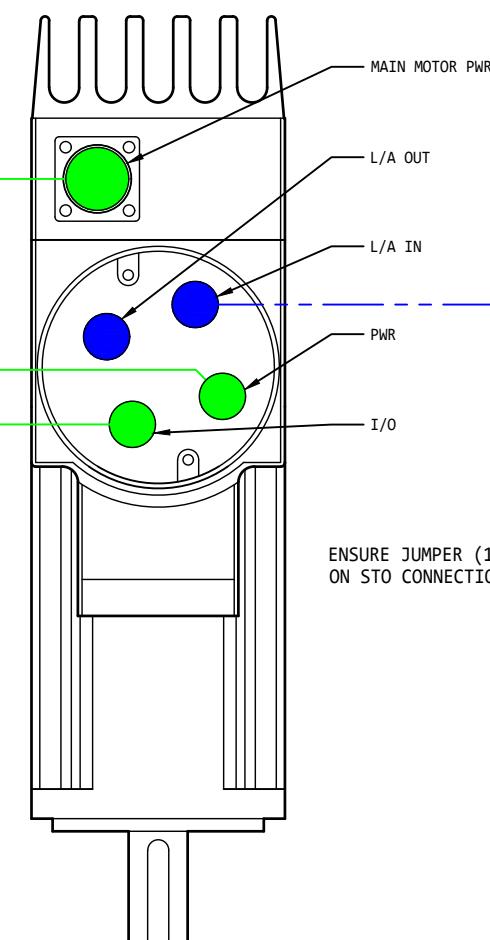
TWIST WIRES TOGETHER AND FERRULE

7-PIN M16 FEMALE to FLYING  
CABLE ID: CBL-22-1

5-PIN M12 FEMALE to FLYING  
CABLE ID: CBL-22-2

TO HOMING SENSOR SIDE B  
(See SPS-023 for wiring details)

MOTOR B  
JVL MAC402



17-PIN M12 MALE to FLYING  
CABLE ID: CBL-22-4

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

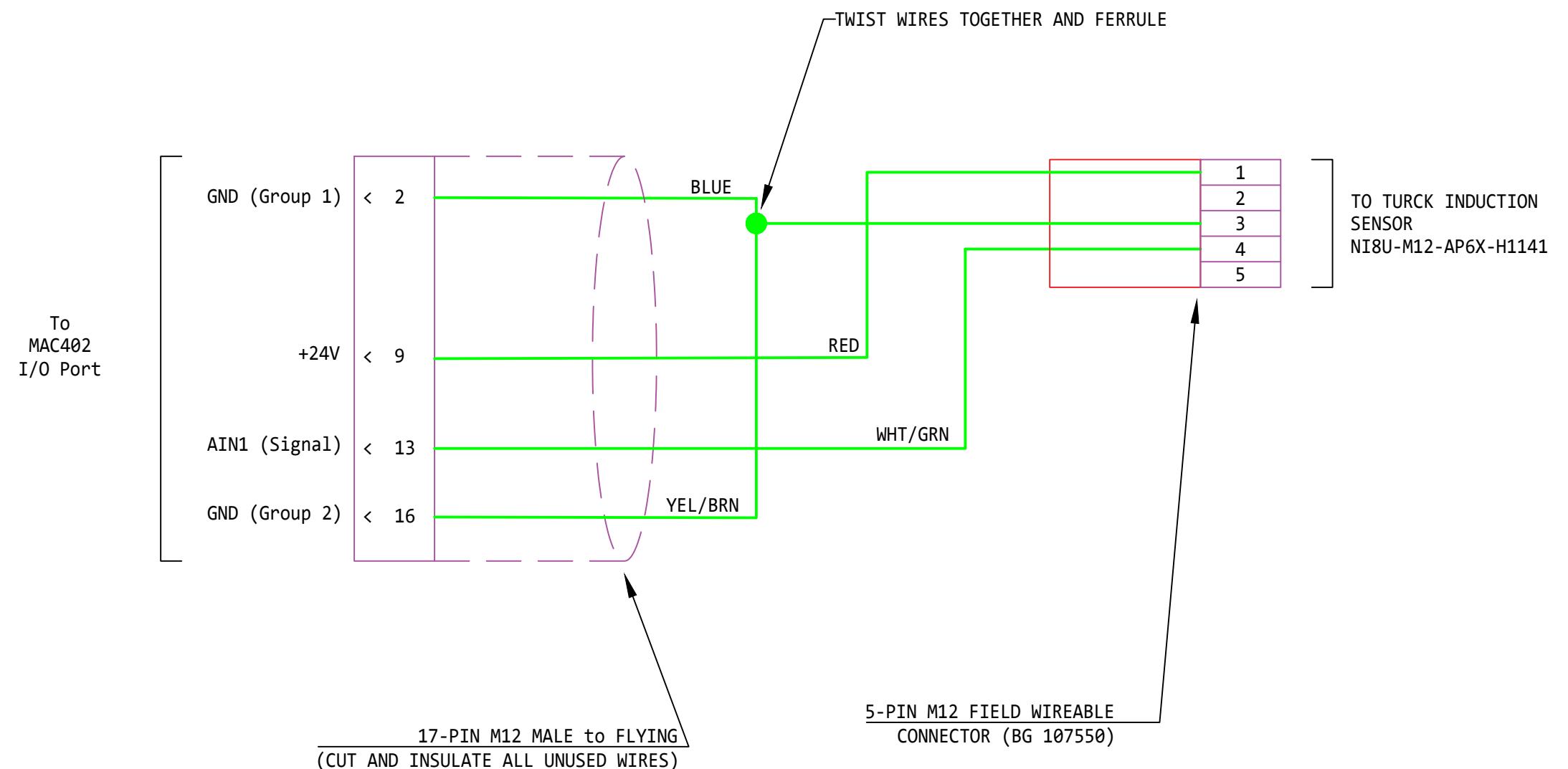
SPS V2  
INTERCONNECT DRAWING PACKAGE  
CLEATED CONVEYOR MOTOR WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
	PREV.	21	BG 117746
J	SHEET	22	SPS-22
	NEXT	23	DWG SPS-22

1 2 3 4 5 6 7 8

17-PIN M12 WIRE COLORS	
A	1 = BROWN
	2 = BLUE
	3 = WHITE
	4 = GREEN
	5 = PINK
	6 = YELLOW
	7 = BLACK
	8 = GREY
	9 = RED
	10 = VIOLET
	11 = GREY/PINK
	12 = RED/BLUE
	13 = WHITE/GREEN
	14 = BROWN/GREEN
	15 = WHITE/YELLOW
	16 = YELLOW/BROWN
	17 = WHITE/GREY

# BOTH SIDES



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION

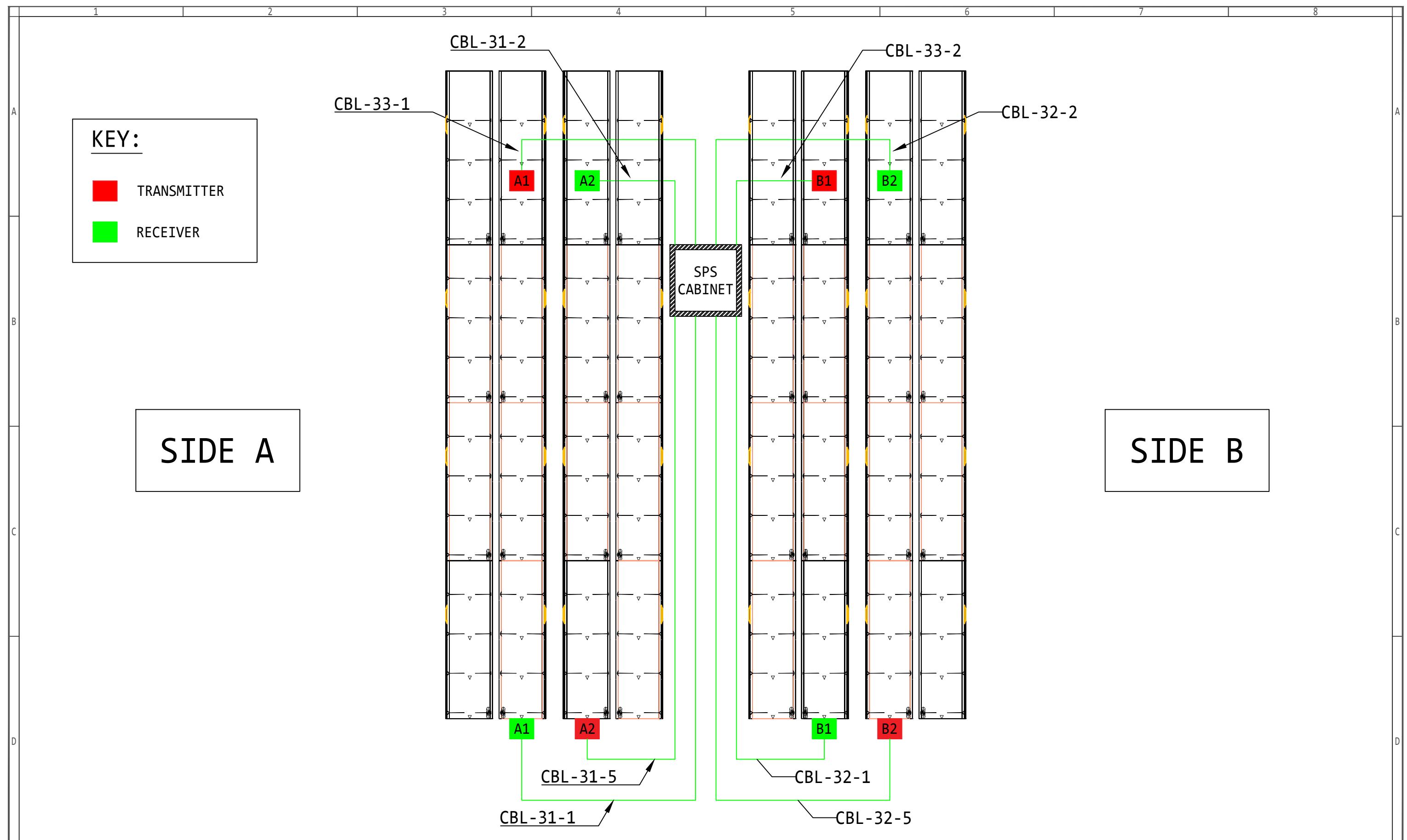


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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
HOMING SENSOR WIRING - BOTH SIDES

REV	SECT.	DETAIL	JOB#
J	PREV.	22	BG 117746
	SHEET	23	
	NEXT	DWG	SPS-23



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION

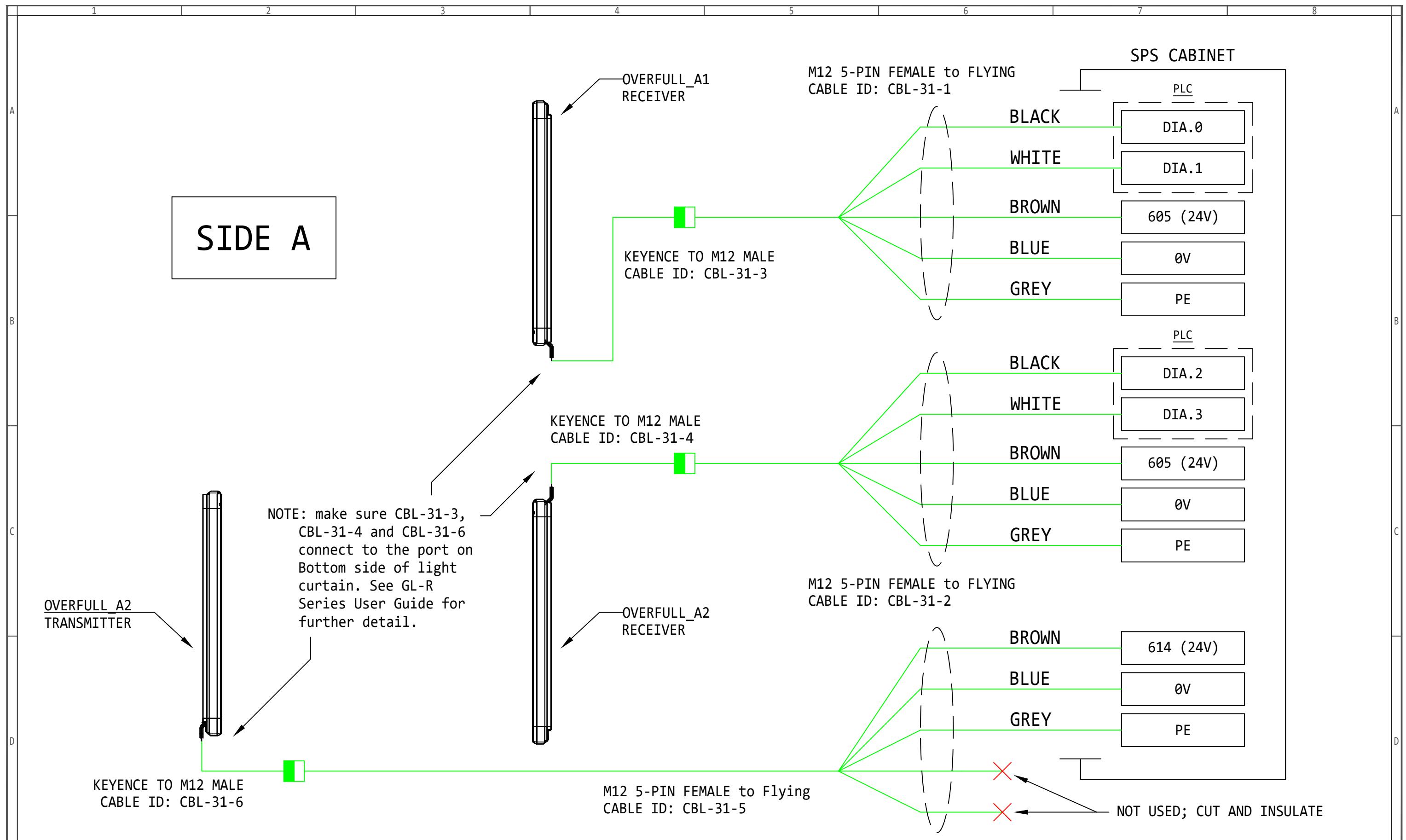


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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
OVERFULL LIGHT CURTAINS - OVERVIEW

REV J  
SECT. PREV. SHEET 30  
OVERVIEW  
NEXT 31  
JOB# BG 117746  
DWG SPS-30



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION

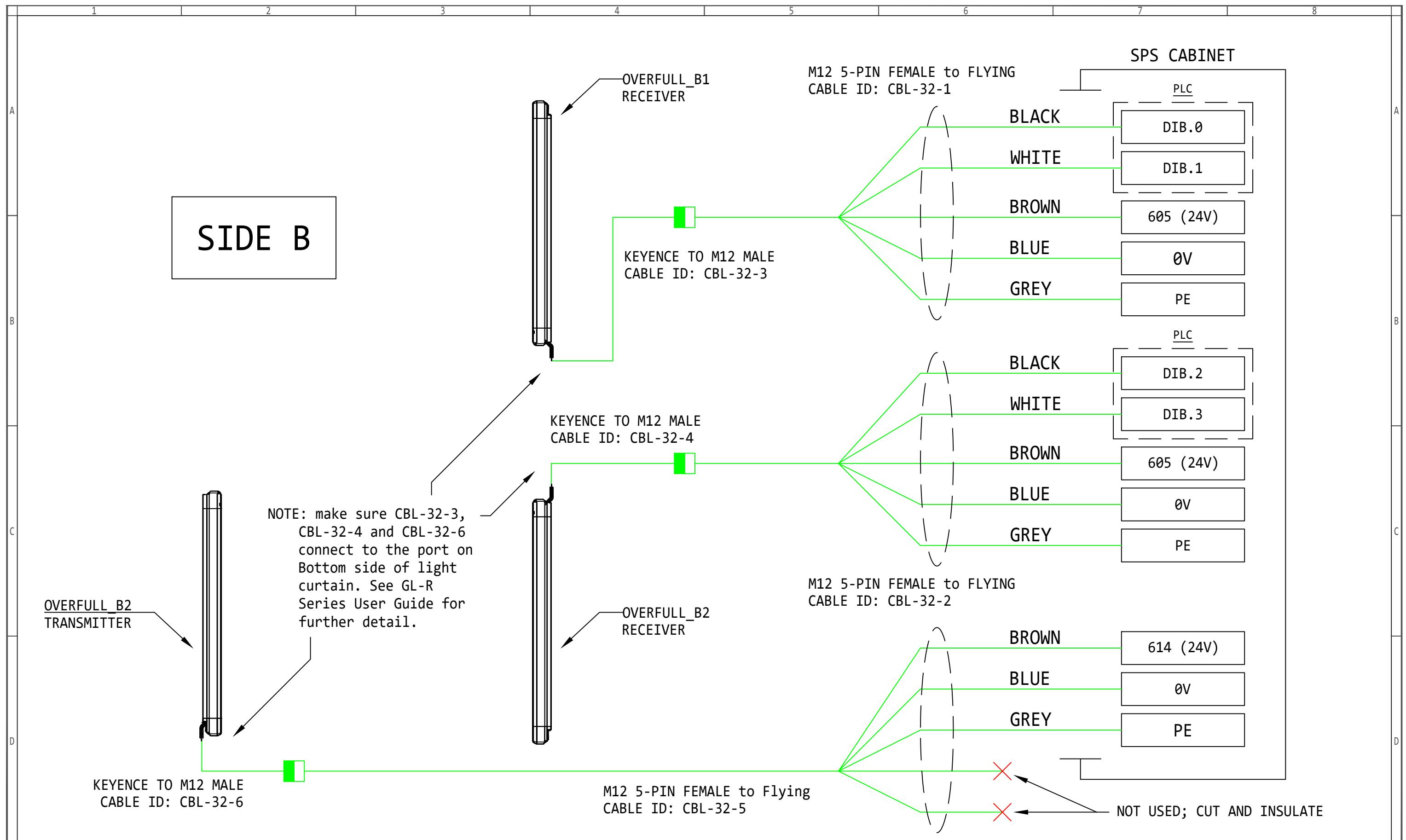


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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
OVERFULL LIGHT CURTAIN WIRING - SIDE A

REV	SECT. PREV.	DETAIL	JOB#
J	30		BG 117746
	31		SPS-31
	32		DWG SPS-31



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
OVERFULL LIGHT CURTAIN WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
PREV.	31		BG 117746
SHEET	32		SPS-32
NEXT	33		

OVERFULL\_A1  
TRANSMITTER

KEYENCE TO M12 MALE  
CABLE ID: CBL-33-3

OVERFULL\_B1  
TRANSMITTER

KEYENCE TO M12 MALE  
CABLE ID: CBL-33-4

NOTE: make sure CBL-33-3 and  
CBL-33-4 connect to the  
port on Bottom side of  
light curtain. See GL-R  
Series User Guide for  
further detail.

M12 4-PIN FEMALE to Flying  
CABLE ID: CBL-33-2

M12 4-PIN FEMALE to Flying  
CABLE ID: CBL-33-1

SPS CABINET

BROWN

BLUE

614 (24V)

0V

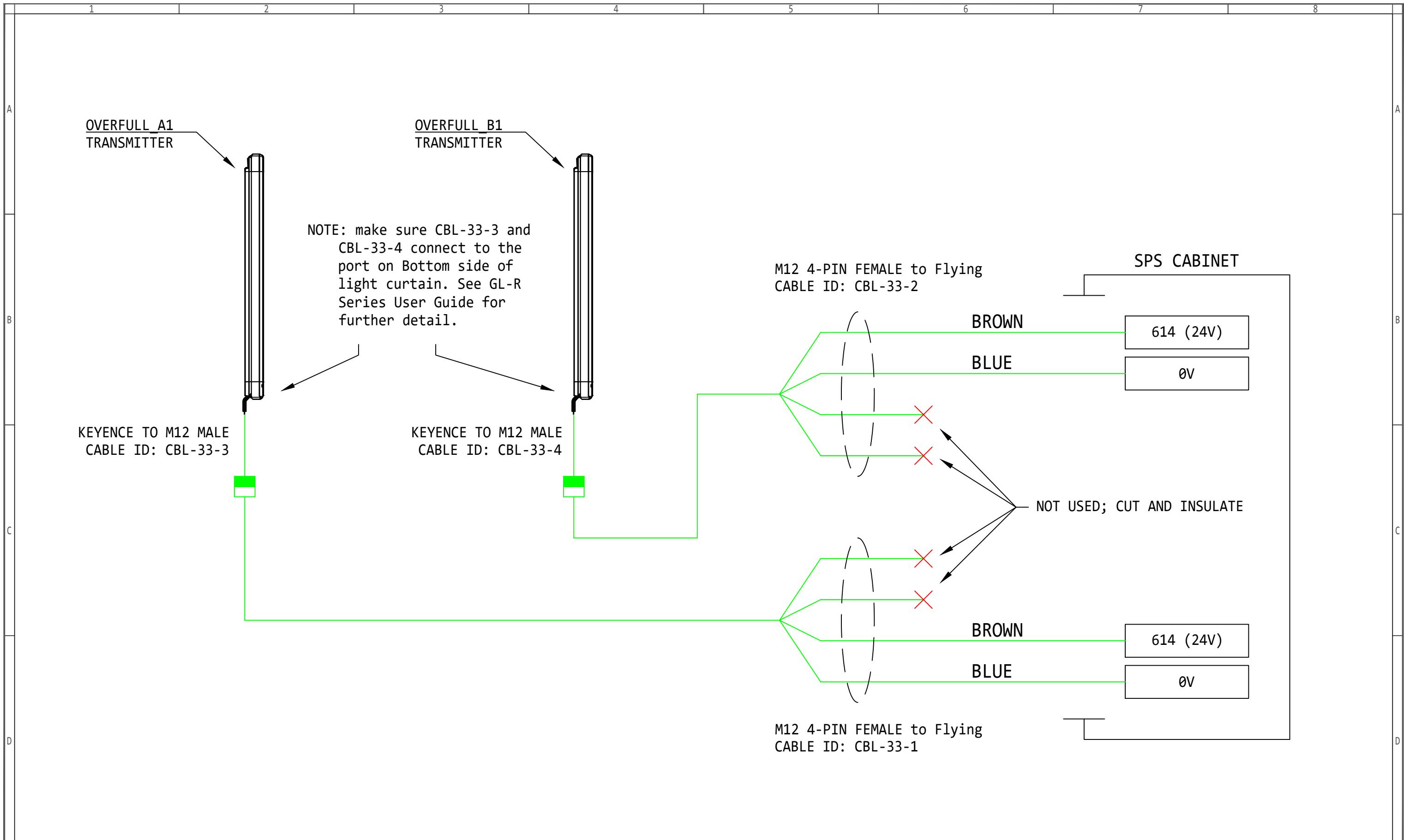
BROWN

BLUE

614 (24V)

0V

NOT USED; CUT AND INSULATE



J 2025-02-12 MPH SEE INTERCONNECT RELEASE NOTES

H 2024-10-01 TFP SEE INTERCONNECT RELEASE NOTES

G 2024-06-17 TFP SEE INTERCONNECT RELEASE NOTES

REV DATE ENGR. DESCRIPTION



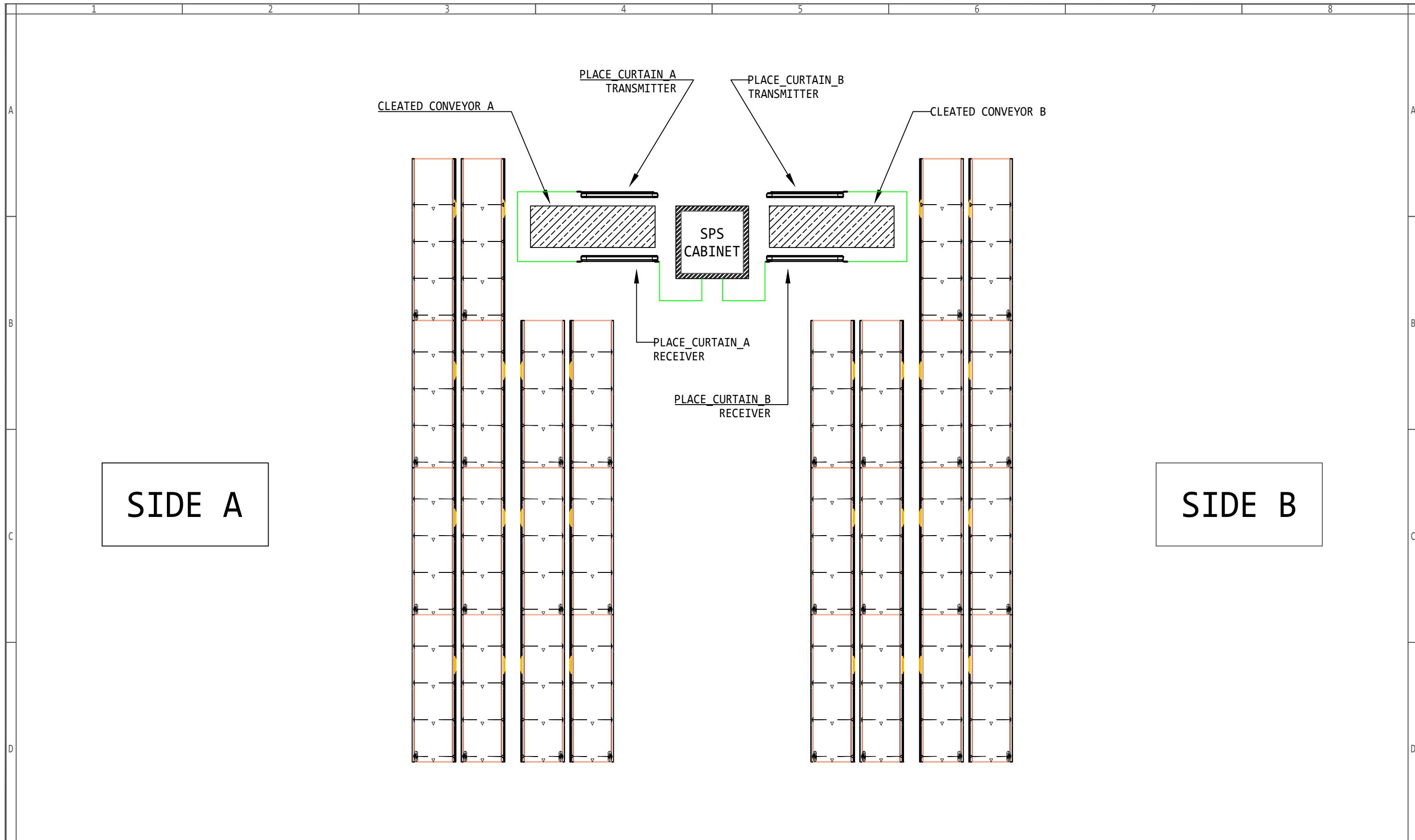
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
OVERFULL LIGHT CURTAIN WIRING - A1/B1 TX

REV J  
SECT. PREV. 32  
DETAIL SHEET 33  
JOB# BG 117746  
DWG SPS-33

1 2 3 4 5 6 7 8



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



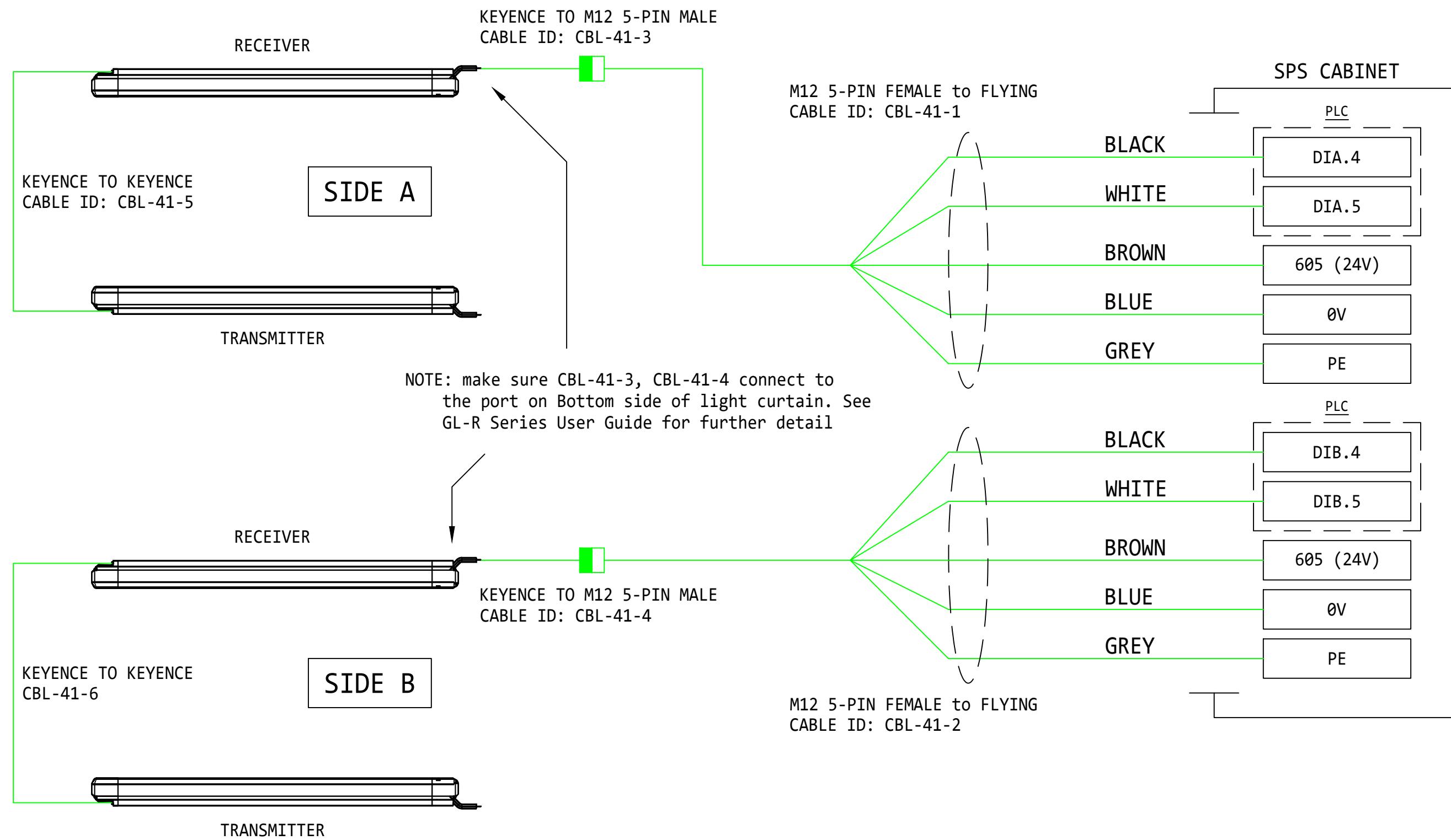
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
PLACE LIGHT CURTAINS - OVERVIEW

REV J  
SECT. OVERVIEW  
PREV. 40  
SHEET 41  
NEXT DWG SPS-40

JOB# BG 117746



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



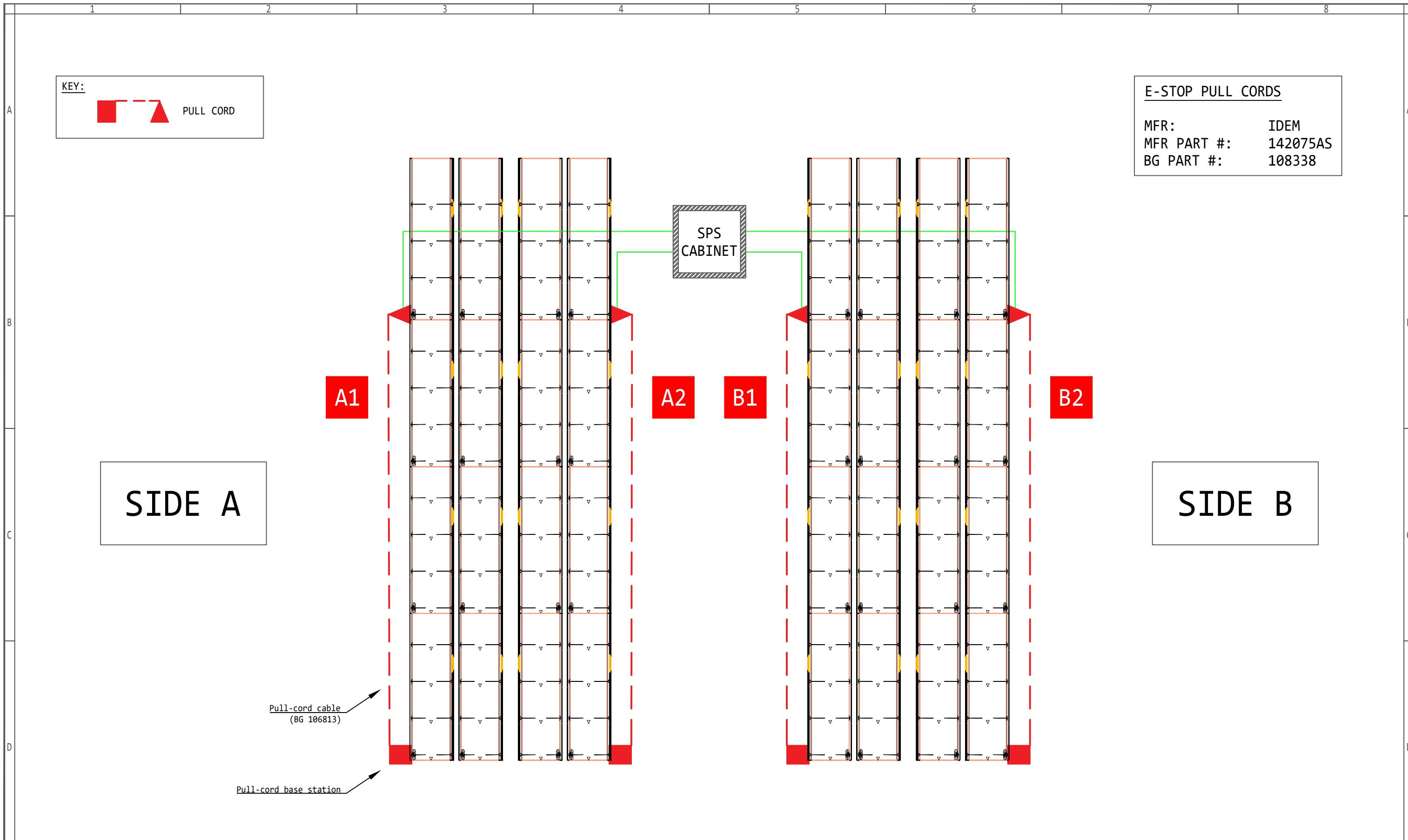
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
PLACE LIGHT CURTAINS - WIRING

REV J  
SECT. PREV. 40  
NEXT 41  
JOB# BG 117746  
DWG SPS-41

1 2 3 4 5 6 7 8



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

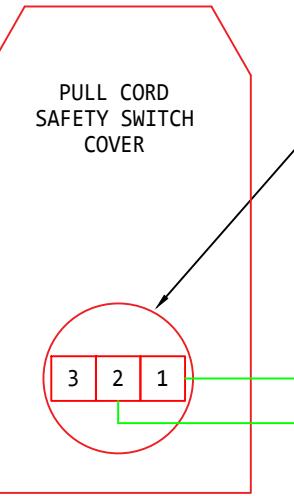
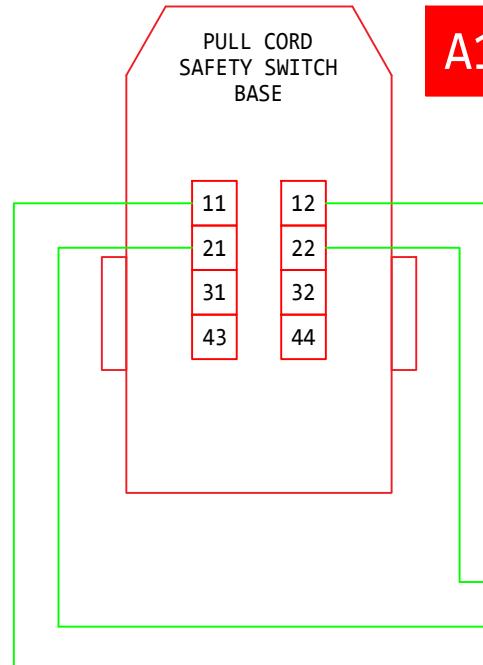
SPS V2  
INTERCONNECT DRAWING PACKAGE  
E-STOP PULL CORDS - OVERVIEW

REV J  
SECT. OVERVIEW  
PREV. 50  
SHEET 51  
NEXT DWG SPS-50

JOB# BG 117746

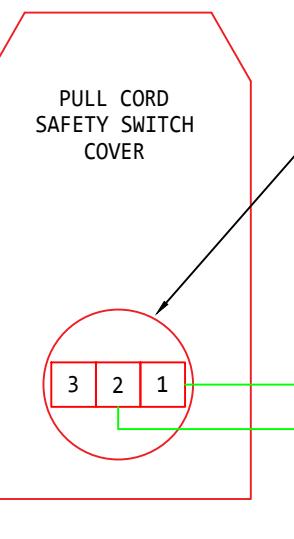
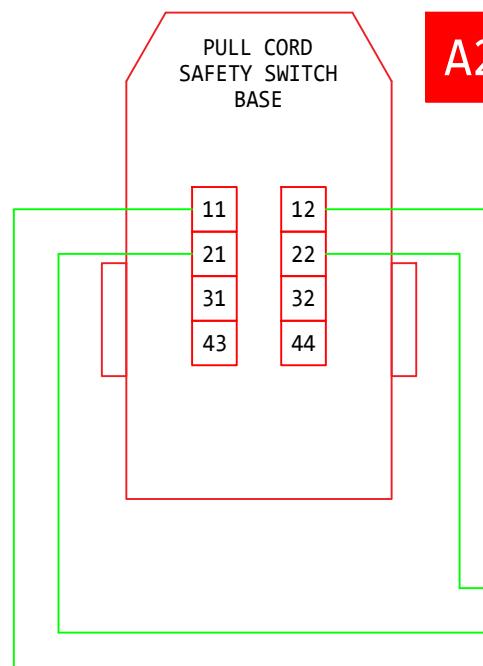
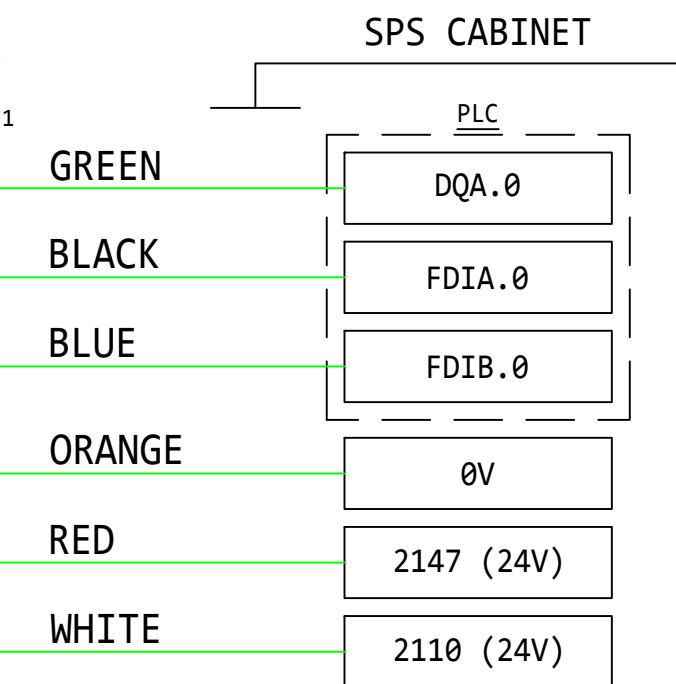
DWG SPS-50

# SIDE A

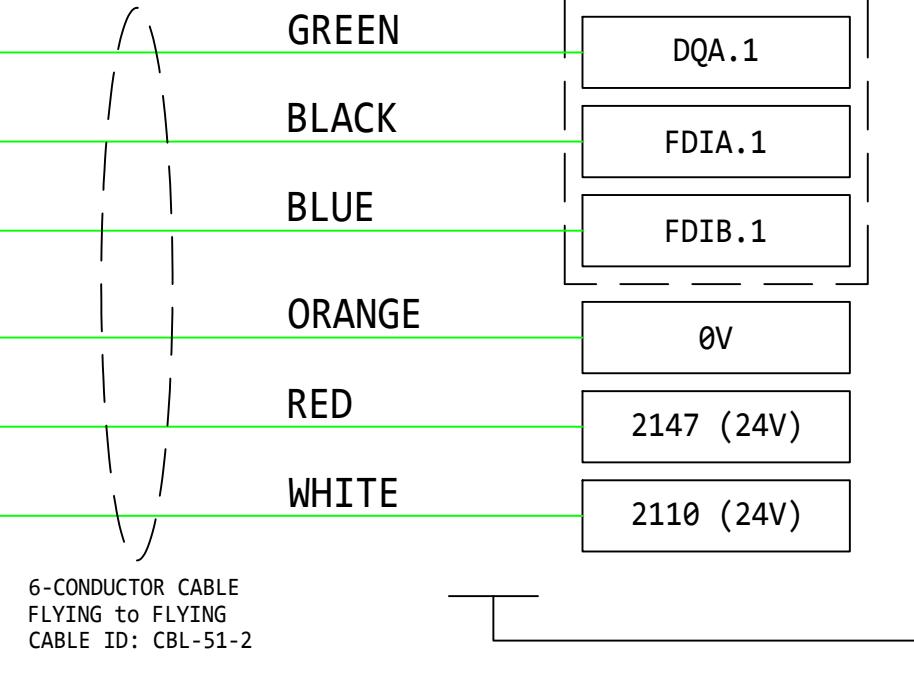


CONNECTIONS LOCATED BEHIND THE COVER

6-CONDUCTOR CABLE  
FLYING to FLYING  
CABLE ID: CBL-51-1



CONNECTIONS LOCATED BEHIND THE COVER



6-CONDUCTOR CABLE  
FLYING to FLYING  
CABLE ID: CBL-51-2

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



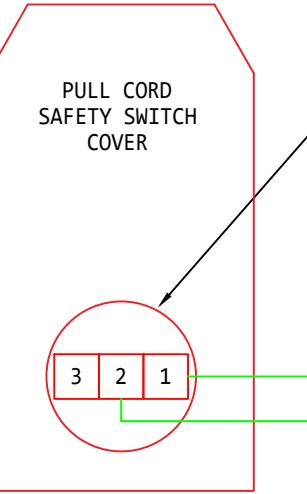
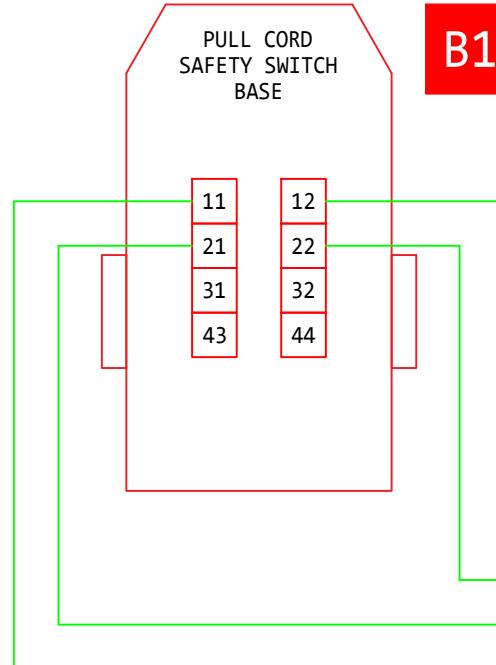
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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

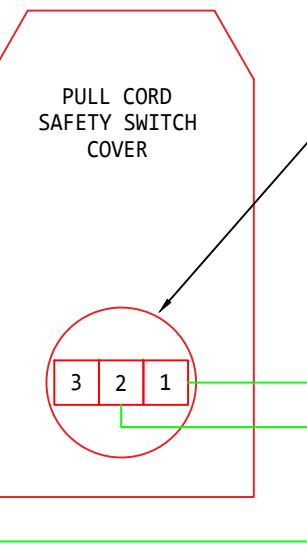
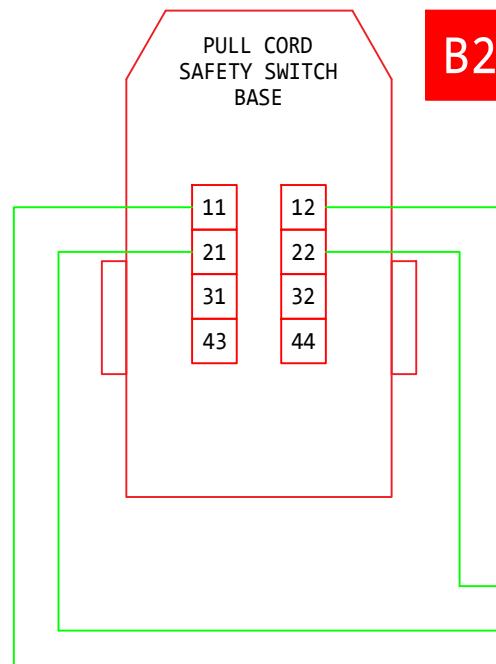
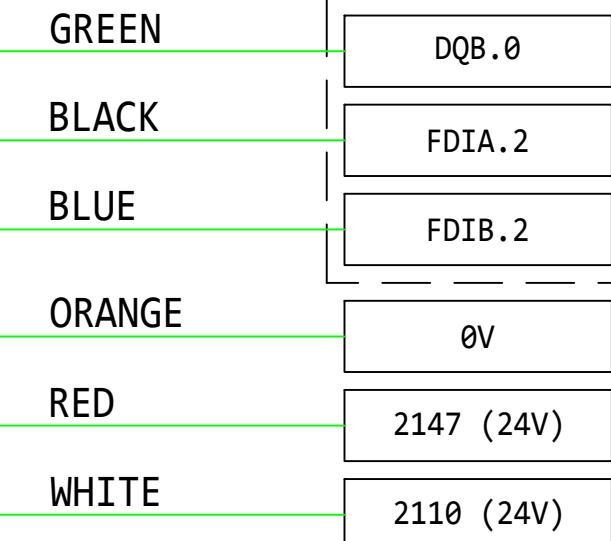
SPS V2  
INTERCONNECT DRAWING PACKAGE  
E-STOP PULL CORDS WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
PREV.		50	BG 117746
SHEET		51	SPS-51
NEXT		52	DWG SPS-51

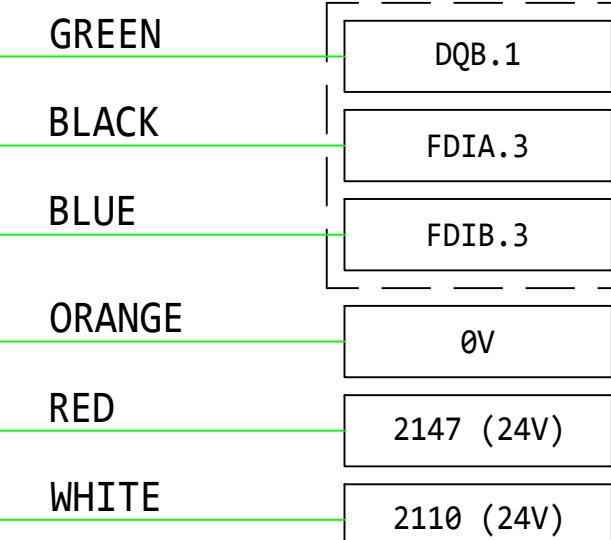
# SIDE B



6-CONDUCTOR CABLE  
FLYING to FLYING  
CABLE ID: CBL-52-1



6-CONDUCTOR CABLE  
FLYING to FLYING  
CABLE ID: CBL-52-2



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
E-STOP PULL CORDS WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
PREV.	51		BG 117746
SHEET	52		
NEXT	53		DWG SPS-52

A

# REFERENCE

B

C

D

A

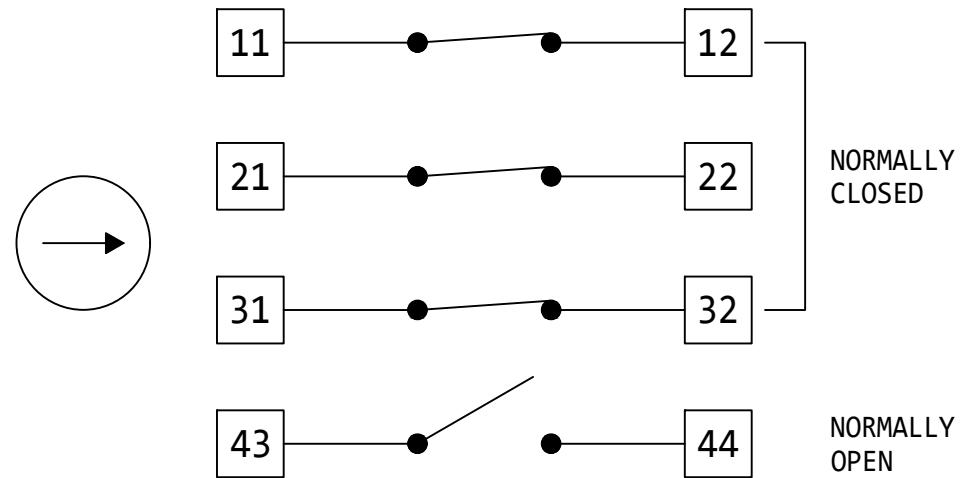
B

C

D

## PULL CORD BASE INTERNAL OPERATION

### ESTOP SWITCH

NORMALLY  
CLOSEDNORMALLY  
OPEN

### INDICATOR LIGHT

- 1 24VDC TO ILLUMINATE RED
- 2 GROUND (0V)
- 3 24VDC TO ILLUMINATE GREEN

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
E-STOP PULL CORDS - REFERENCE

REV	SECT.	REFERENCE	JOB#
J	PREV.	52	BG 117746
	SHEET	53	SPS-53
	DWG		

1 2 3 4 5 6 7 8

A

B

C

D

A

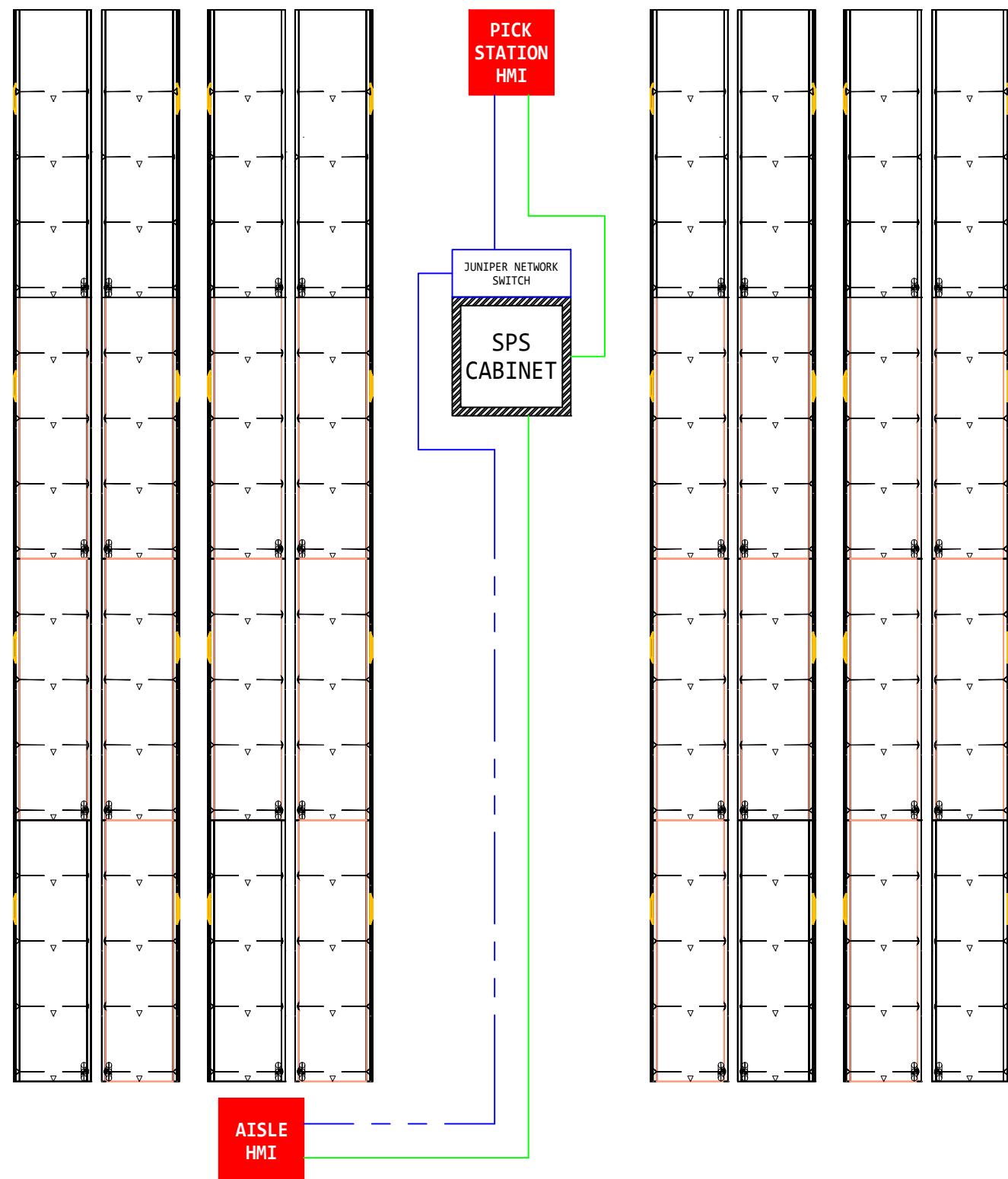
B

C

D

SIDE A

SIDE B



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



140 SOUTH ROAD  
BEDFORD, MA 01730

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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
HMI - OVERVIEW

REV	SECT. OVERVIEW	JOB#
	PREV.	BG 117746
J	SHEET 60	DWG SPS-60
	NEXT 61	

**PICK  
STATION  
HMI**

LAN PORT

USB PORT

DC IN 12-24V

GND

RJ45 to RJ45  
CABLE ID: CBL-61-1

PORT 20

To SKU confirmation barcode scanner  
OPTIONAL - see pg. 180

SPS CABINET

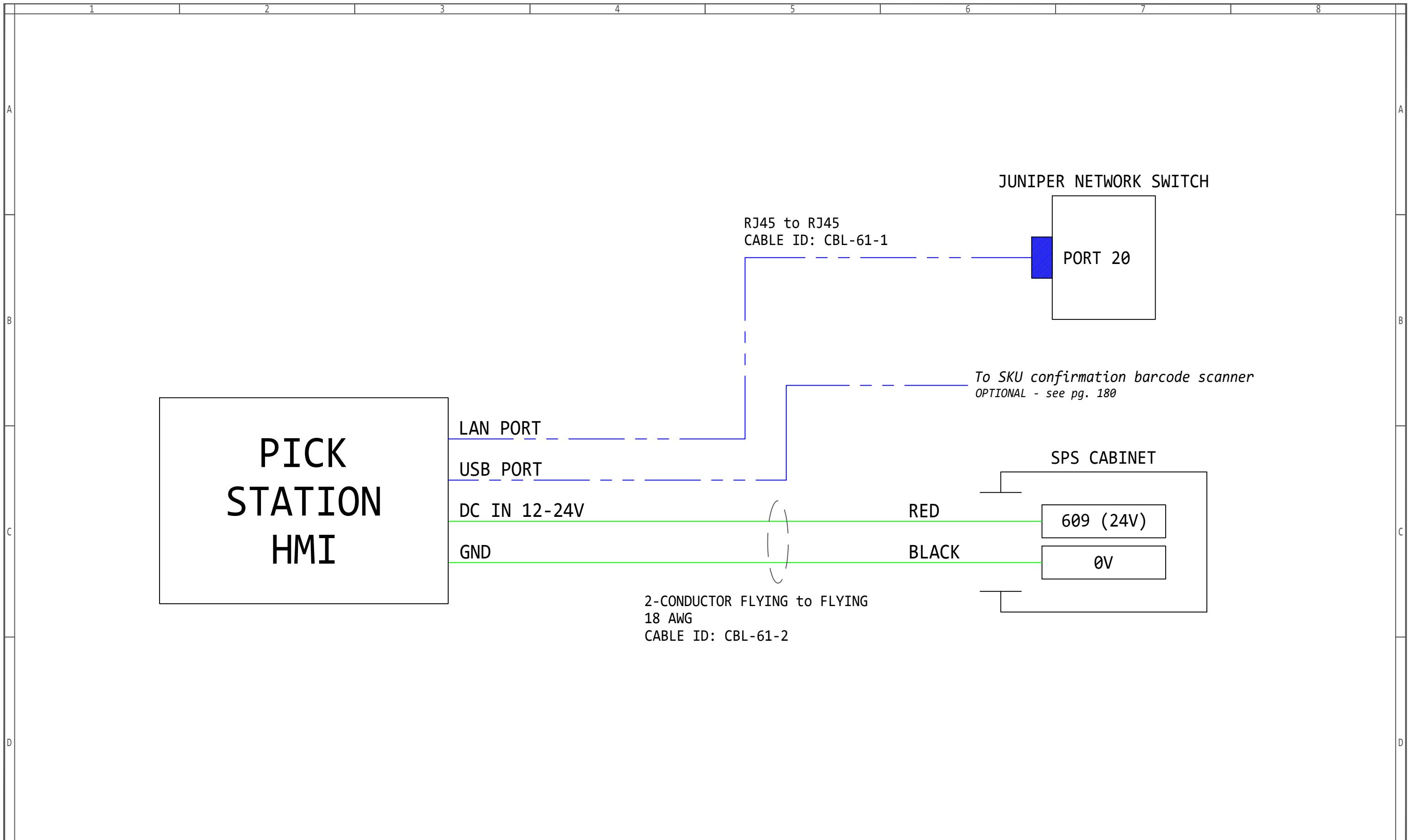
RED

609 (24V)

BLACK

0V

2-CONDUCTOR FLYING to FLYING  
18 AWG  
CABLE ID: CBL-61-2



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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140 SOUTH ROAD  
BEDFORD, MA 01730

DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
PICK STATION HMI - WIRING

REV	SECT.	DETAIL	JOB#
PREV.		60	BG 117746
SHEET		61	SPS-61
NEXT		62	DWG SPS-61



LAN PORT

DC IN 12-24V

GND

RJ45 to RJ45  
CABLE ID: CBL-62-1

JUNIPER NETWORK SWITCH

PORT 21

SPS CABINET

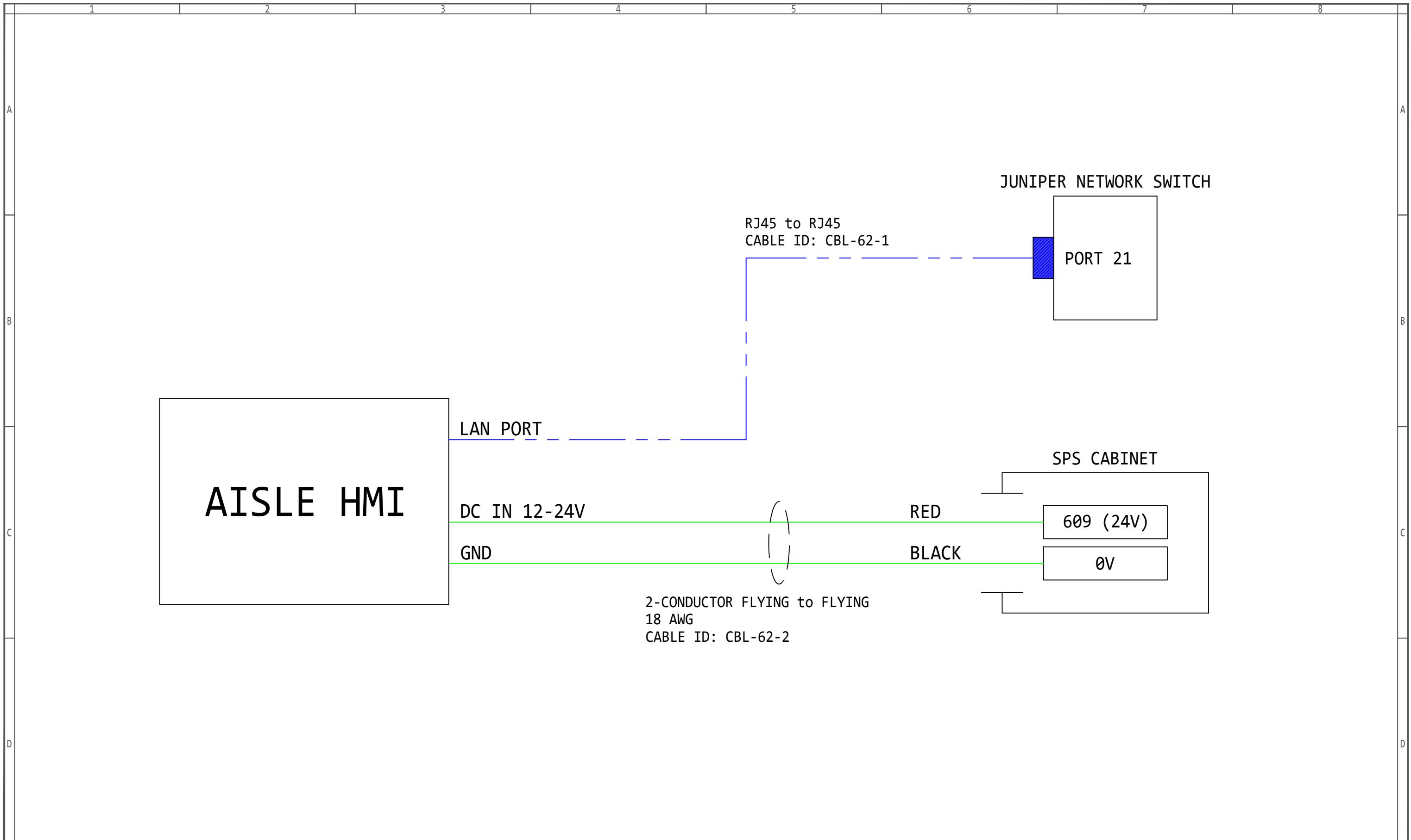
RED

BLACK

609 (24V)

0V

2-CONDUCTOR FLYING to FLYING  
18 AWG  
CABLE ID: CBL-62-2



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



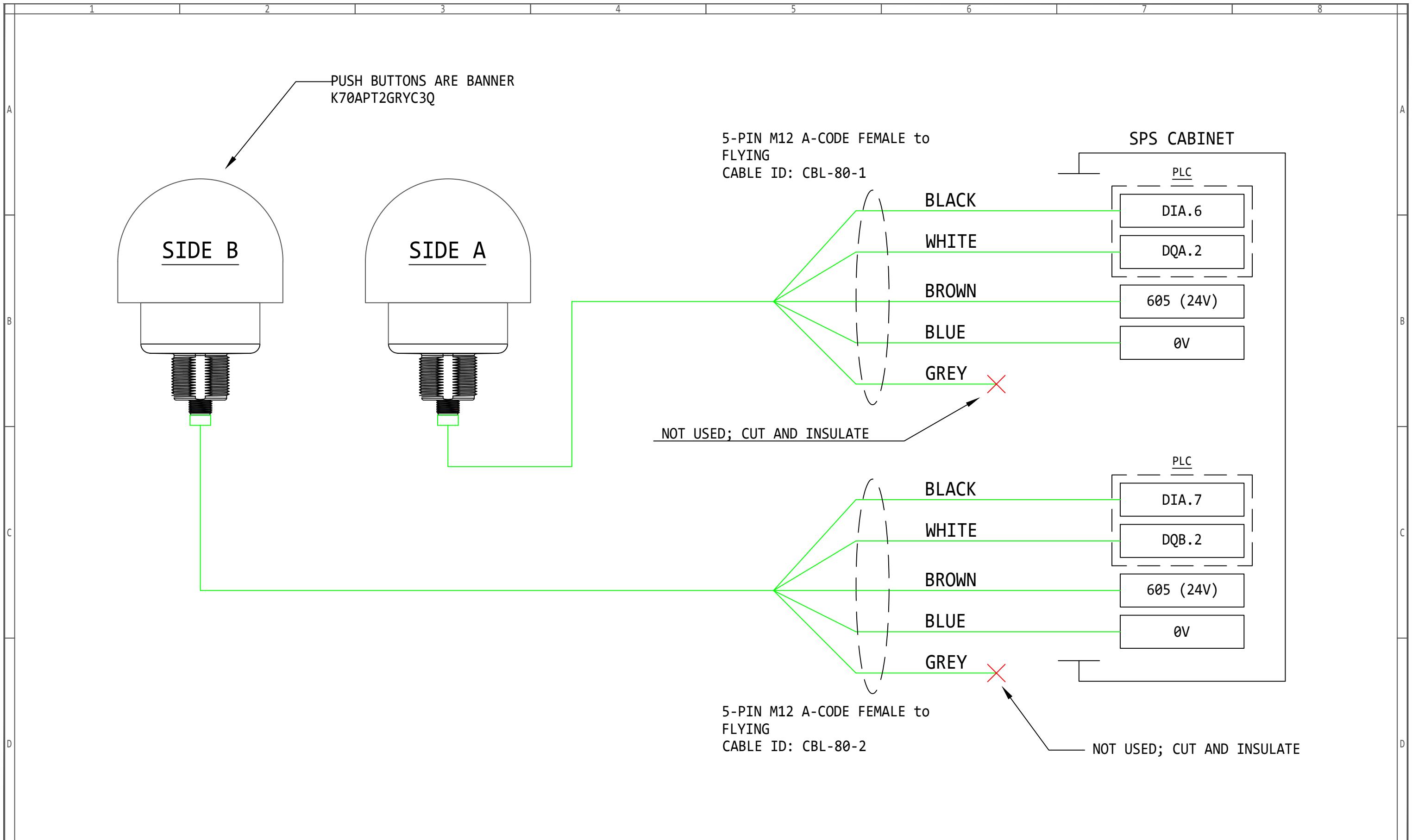
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
AISLE HMI - WIRING

REV	SECT.	DETAIL	JOB#
PREV.	61		BG 117746
SHEET	62		SPS-62
NEXT			DWG SPS-62

1 2 3 4 5 6 7 8



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



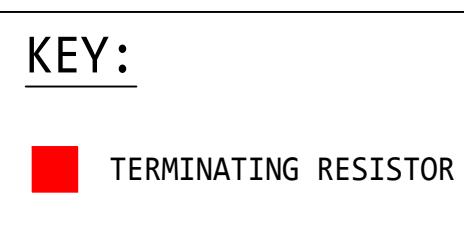
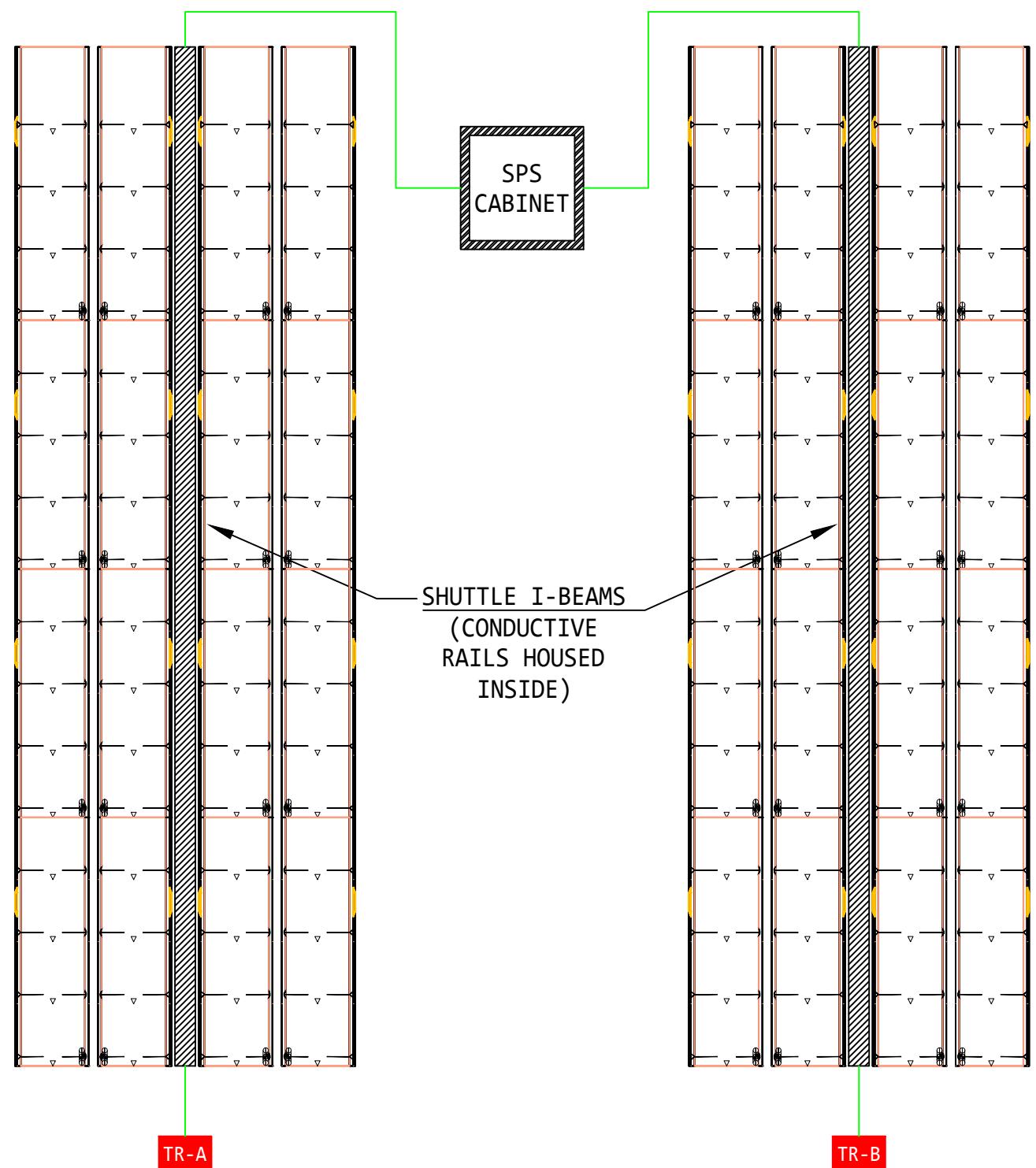
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
PICK STATION PUSH BUTTON - WIRING

REV	SECT.	DETAIL	JOB#
	PREV.		BG 117746
J	SHEET	80	
	NEXT		DWG SPS-80

1 2 3 4 5 6 7 8

A A  
B B  
C C  
D D**SIDE A****SIDE B**

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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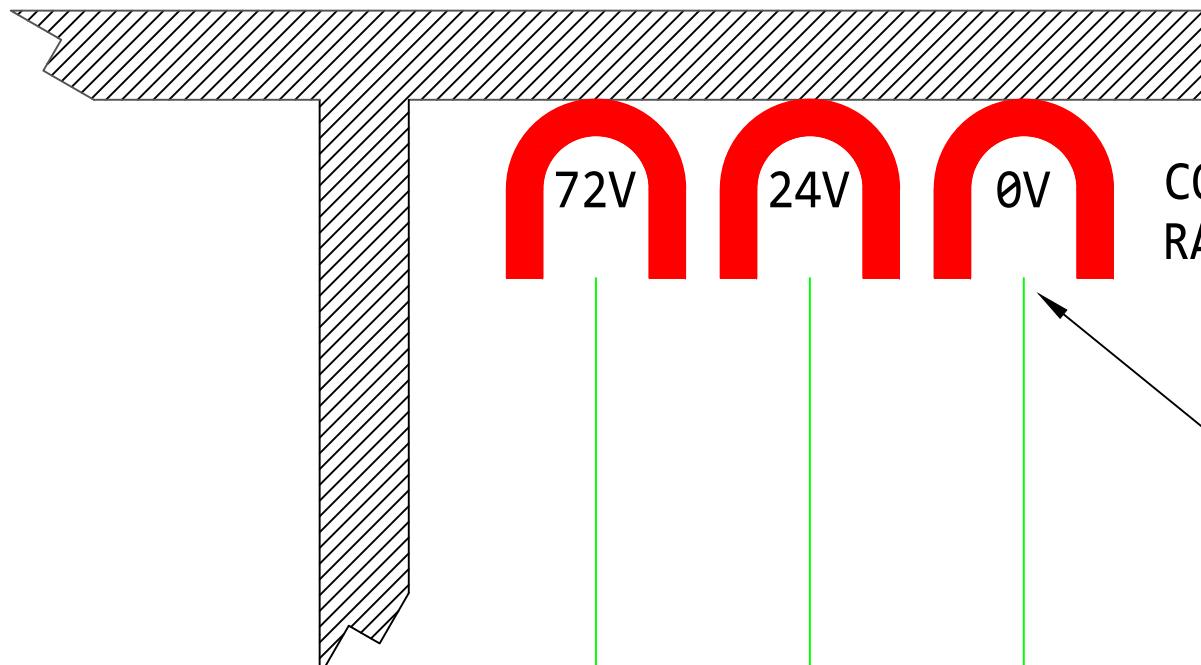
DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAILS - OVERVIEW

REV J  
SECT. OVERVIEW  
PREV. 90  
SHEET 91  
NEXT 91  
JOB# BG 117746  
DWG SPS-90

SIDE A

BEAM CROSS SECTION: SIDE  
NEAREST OPERATOR STATION



CONDUCTIVE  
RAILS

USE CONDUCTIX COPPER LUGS  
(BG 115810) TO ATTACH  
WIRE TO RAILS

SPS CABINET

GREEN

0V

BLACK

1652 (24V)

WHITE

FU1650 (72V)

3-CONDUCTOR 16-AWG SOOW CABLE  
CABLE ID: CBL-91-1

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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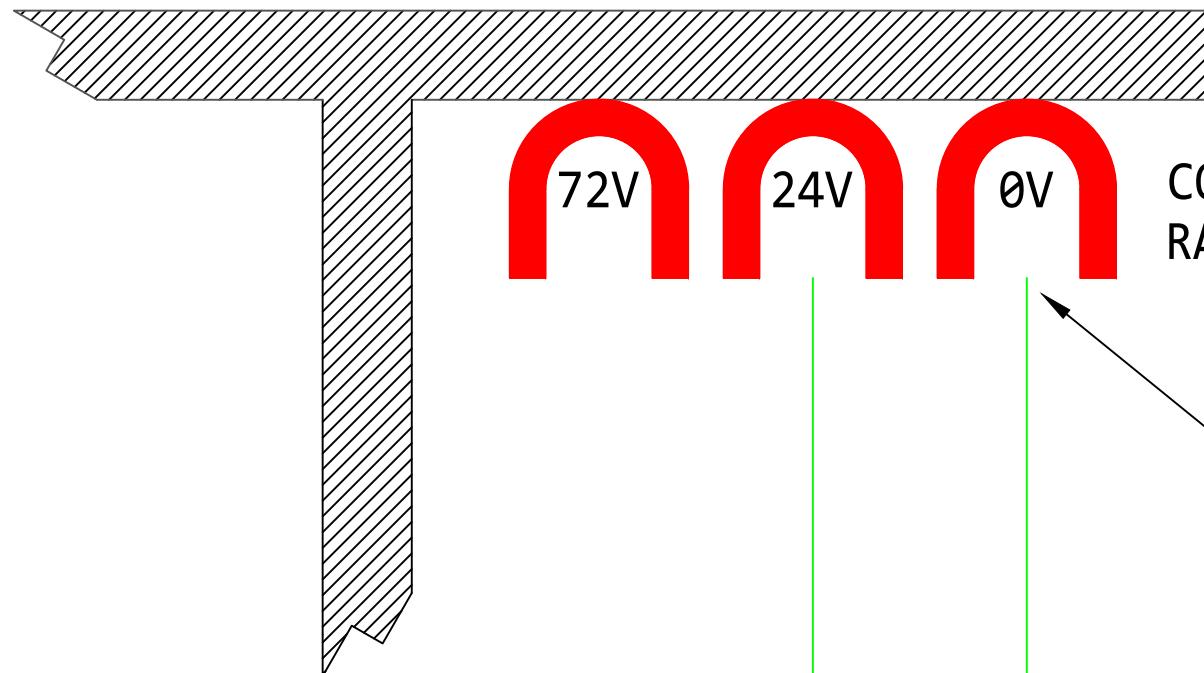
DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAIL WIRING - POWER - SIDE A

REV J  
SECT. PREV. 90  
DETAIL SHEET 91  
JOB# BG 117746  
DWG SPS-91  
NEXT 92

SIDE A

BEAM CROSS SECTION: SIDE  
OPPOSITE OPERATOR STATION



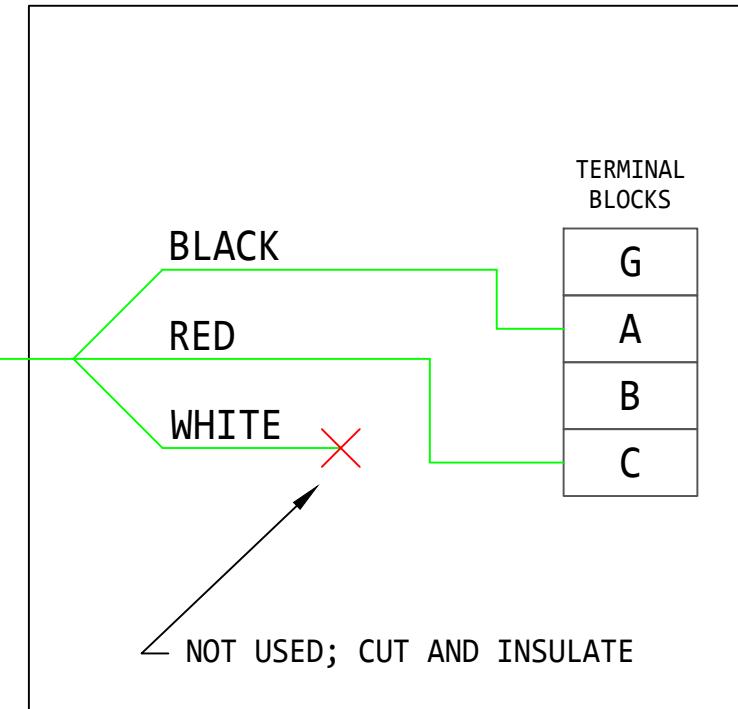
BLACK  
RED  
WHITE

3-CONDUCTOR 12-AWG SOOW CABLE  
CABLE ID: CBL-92-1

NOT USED; CUT AND INSULATE

NOTE: The Conductix terminating resistor enclosure (BG 115813) comes with a cable pre-installed. Remove this cable before installing CBL-92-1.

CONDUCTIX TERMINATING  
RESISTOR ENCLOSURE



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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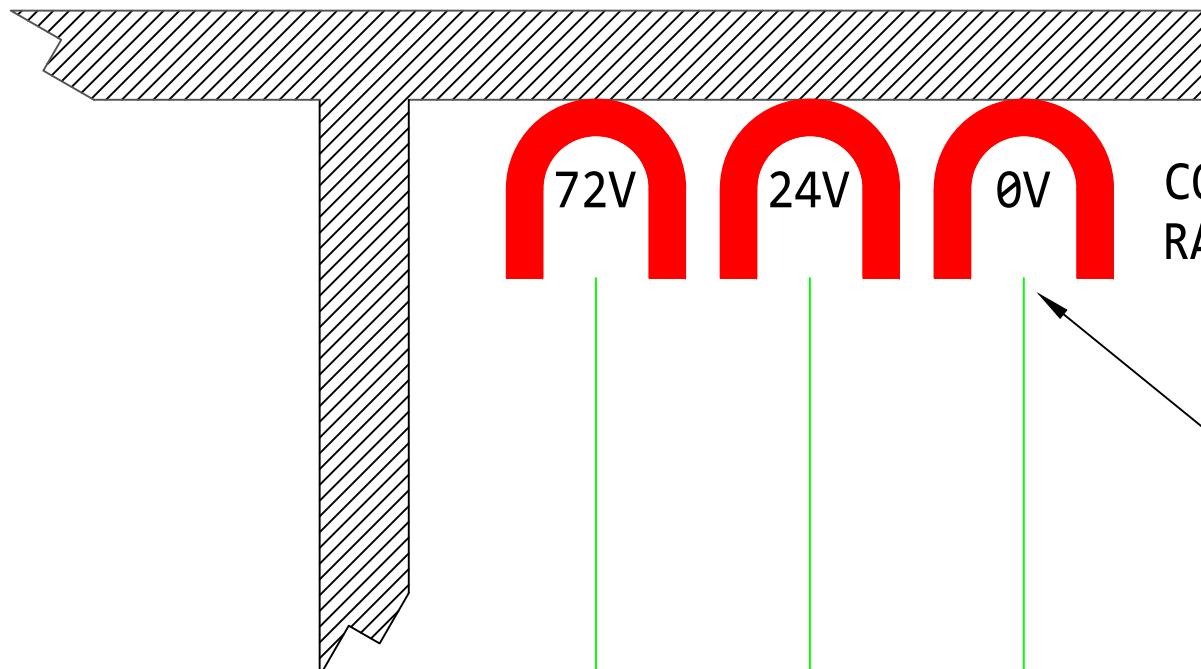
DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAIL WIRING - TERMINATING RESISTOR - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	91	BG 117746
	SHEET	92	
	NEXT	93	DWG SPS-92

SIDE B

I-BEAM CROSS SECTION: SIDE  
NEAREST OPERATOR STATION



CONDUCTIVE  
RAILS

USE CONDUCTIX COPPER LUGS  
(BG 115810) TO ATTACH  
WIRE TO RAILS

SPS CABINET

GREEN

0V

BLACK

1652 (24V)

WHITE

FU1660 (72V)

3-CONDUCTOR 12-AWG SOOW CABLE  
CABLE ID: CBL-93-1

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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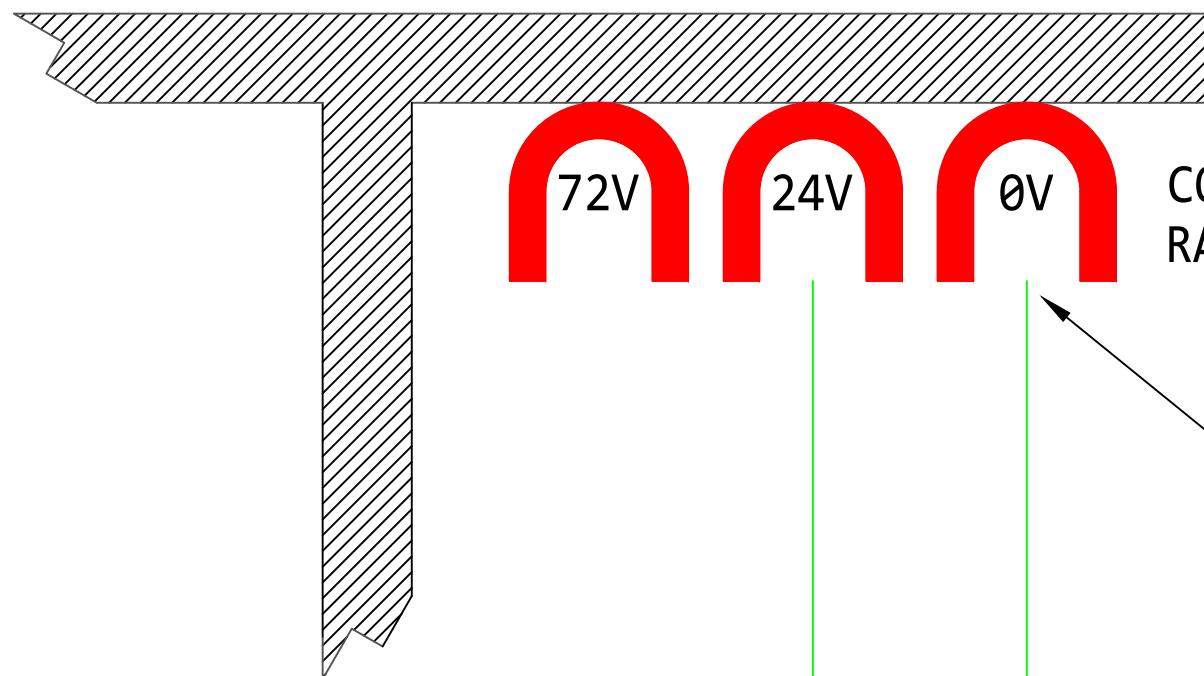
DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAIL WIRING - POWER - SIDE B

REV	SECT.	DETAIL	JOB#
PREV.	92		BG 117746
SHEET	93		SPS-93
NEXT	94		DWG SPS-93

SIDE B

I-BEAM CROSS SECTION: SIDE  
OPPOSITE OPERATOR STATION



CONDUCTIVE  
RAILS

USE CONDUCTIX COPPER LUGS  
(BG 115810) TO ATTACH  
WIRE TO RAILS

BLACK

RED

WHITE

3-CONDUCTOR 12-AWG SOOW CABLE  
CABLE ID: CBL-94-1

NOT USED; CUT AND INSULATE

CONDUCTIX TERMINATING  
RESISTOR ENCLOSURE

TERMINAL BLOCKS

G
A
B
C

BLACK

RED

WHITE

NOT USED; CUT AND INSULATE

NOTE: The Conductix terminating resistor enclosure (BG 115813) comes with a cable pre-installed. Remove this cable before installing CBL-94-1.

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
CONDUCTIVE RAIL WIRING - TERMINATING RESISTOR - SIDE B

REV	SECT. PREV. 93	DETAIL 93	JOB# BG 117746
J	SHEET 94	NEXT	DWG SPS-94

1 2 3 4 5 6 7 8

A

B

C

D

A

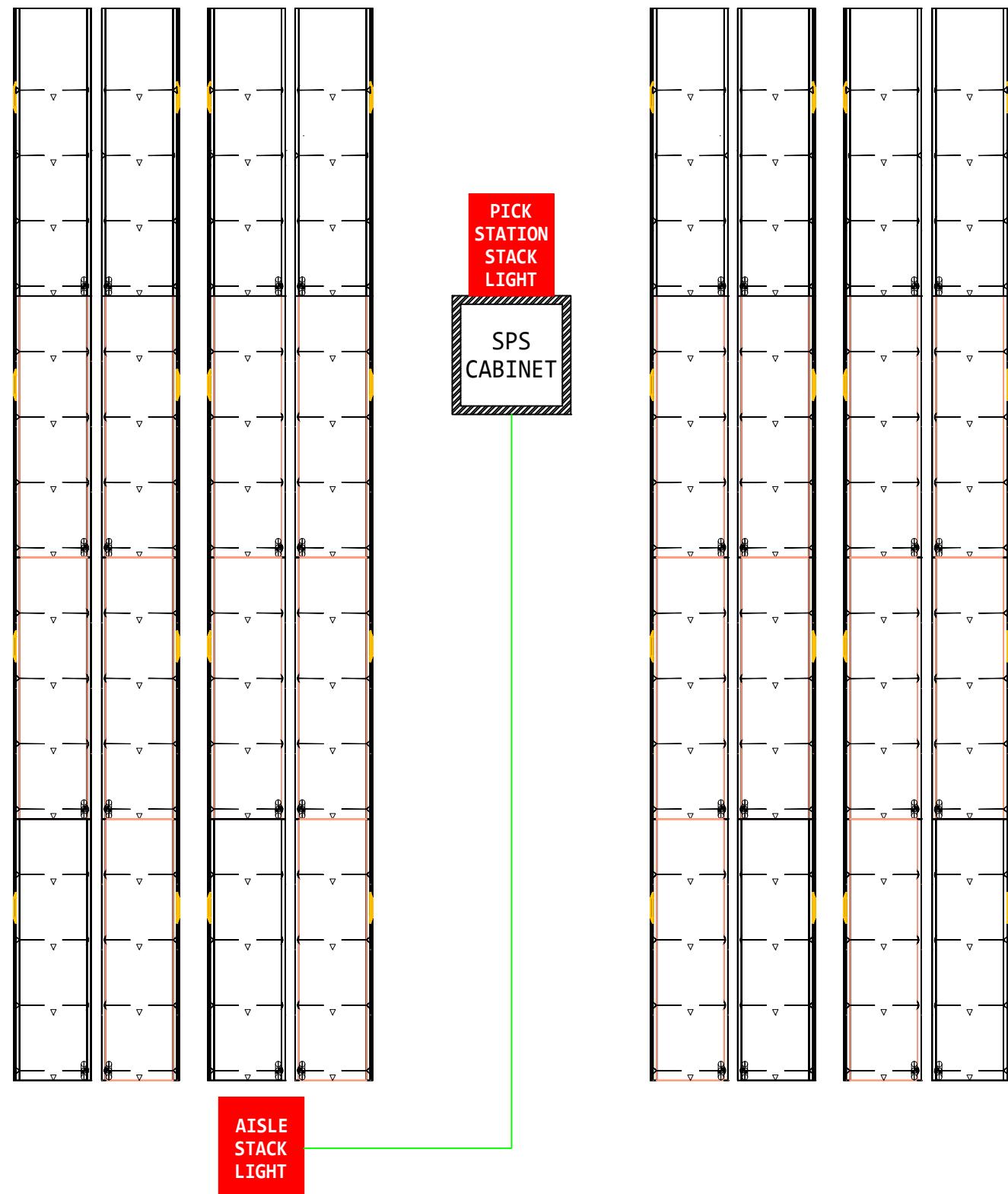
B

C

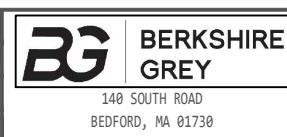
D

SIDE A

SIDE B



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



140 SOUTH ROAD  
BEDFORD, MA 01730

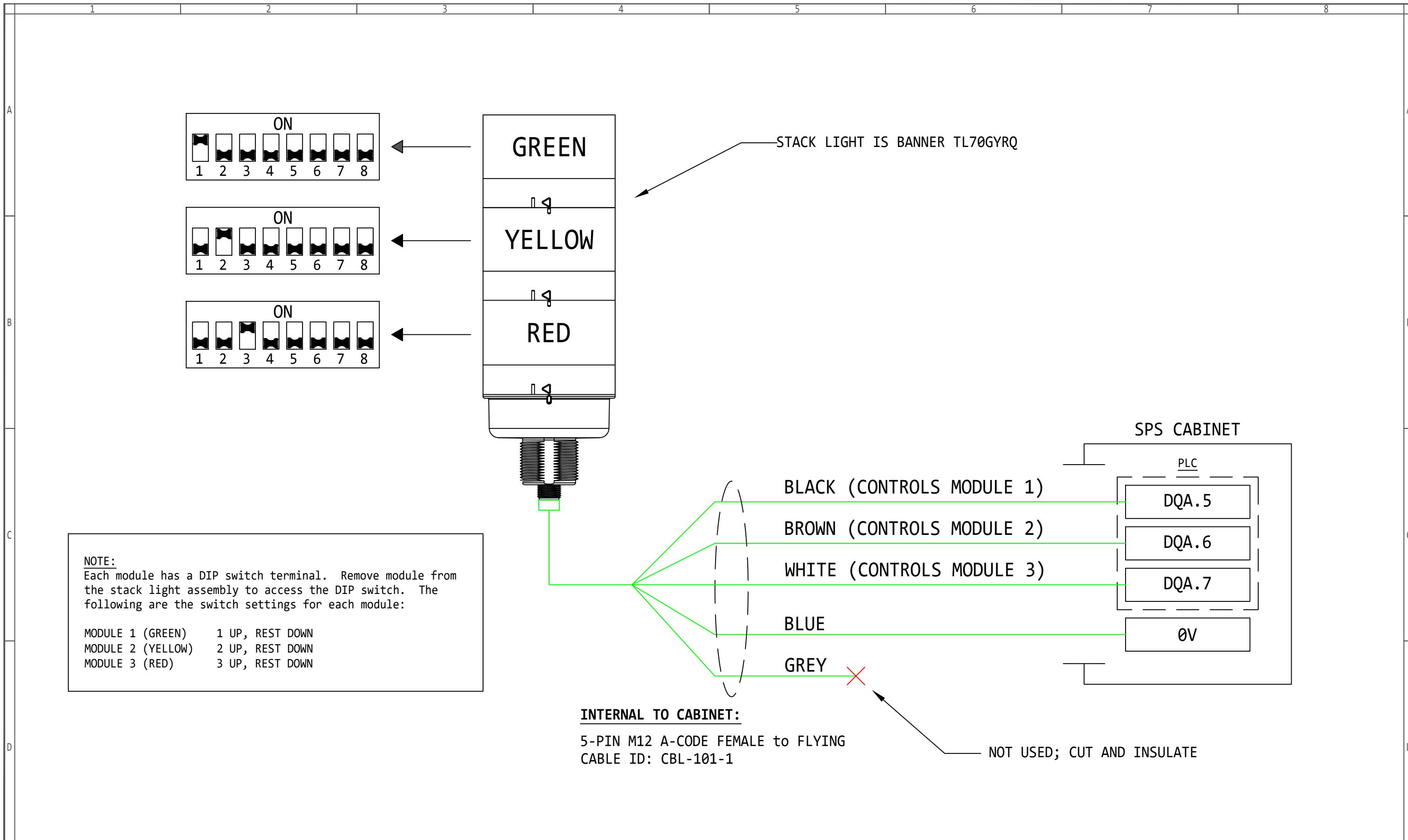
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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
STACK LIGHTS - OVERVIEW

REV J  
SECT. OVERVIEW  
PREV. 100  
SHEET 101  
NEXT 101  
JOB# BG 117746  
DWG SPS-100

1 2 3 4 5 6 7 8



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION

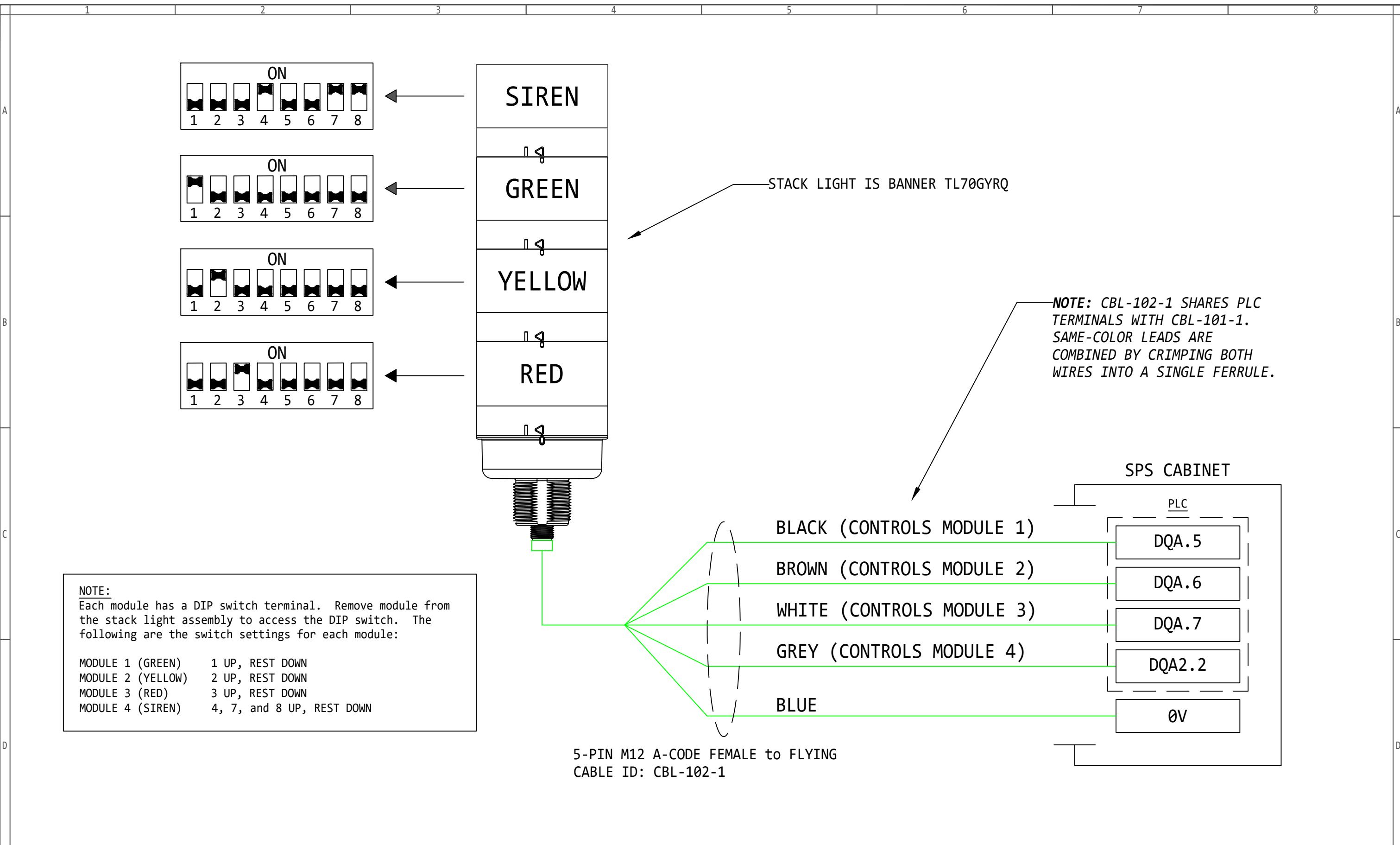


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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
PICK STATION STACK LIGHT - WIRING

REV J  
SECT. PREV. 100  
DETAIL SHEET 101  
JOB# BG 117746  
NEXT 102  
DWG SPS-101



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



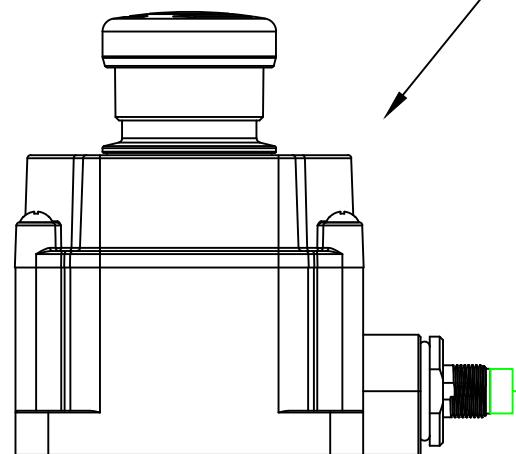
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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
AISLE STACK LIGHT - WIRING

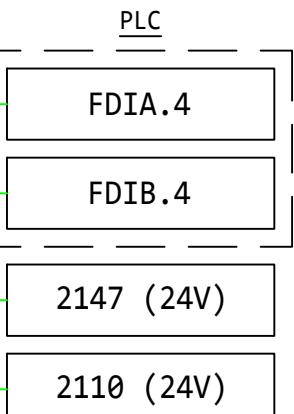
REV	SECT.	DETAIL	JOB#
	PREV.	101	BG 117746
J	SHEET	102	SPS-102
	NEXT		DWG SPS-102

1 2 3 4 5 6 7 8

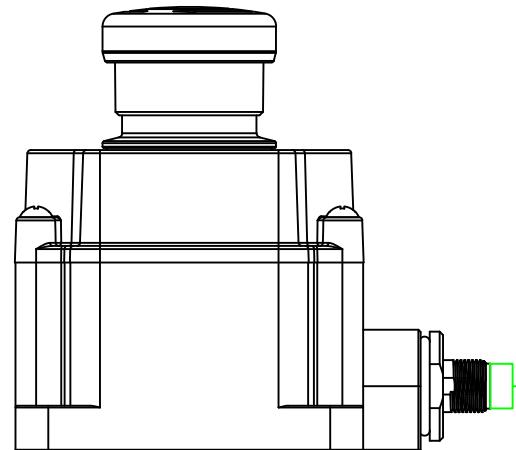
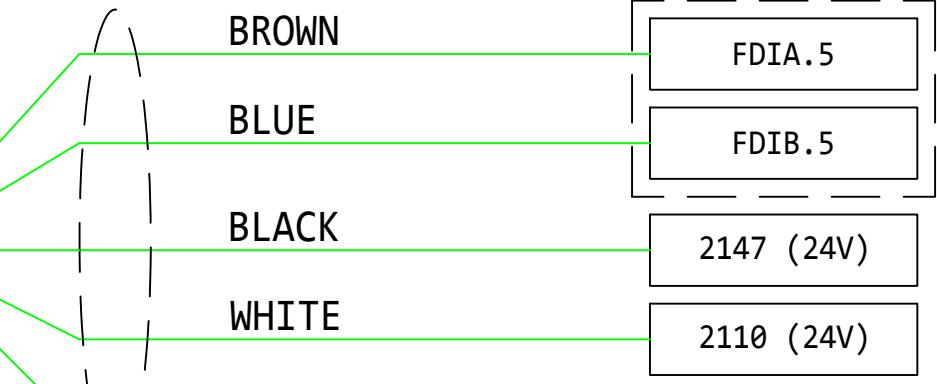
**SIDE A**

E-STOP BUTTONS ARE BANNER  
SSA-EB1P-02ED1Q4

5-PIN M12 A-CODE FEMALE to FLYING  
CABLE ID: CBL-110-1

**SPS CABINET**

NOT USED; CUT AND INSULATE

**SIDE B**

5-PIN M12 A-CODE FEMALE to FLYING  
CABLE ID: CBL-110-2

NOT USED; CUT AND INSULATE

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
PICK STATION E-STOPL BUTTONS - WIRING

REV	SECT. PREV. SHEET	DETAIL	JOB#
J	110		BG 117746
			DWG SPS-110

1 2 3 4 5 6 7 8

A

B

C

D

A

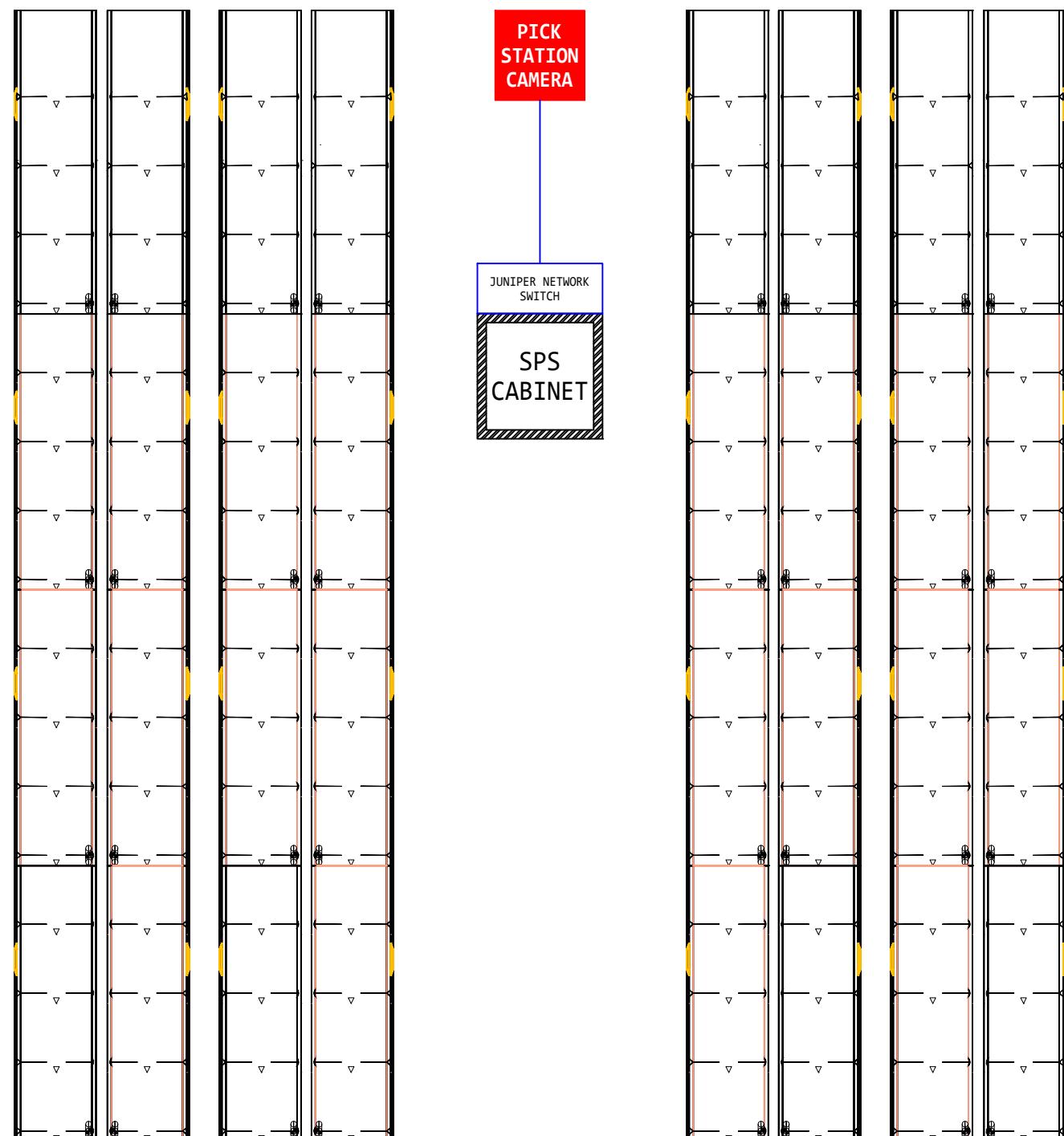
B

C

D

SIDE A

SIDE B



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



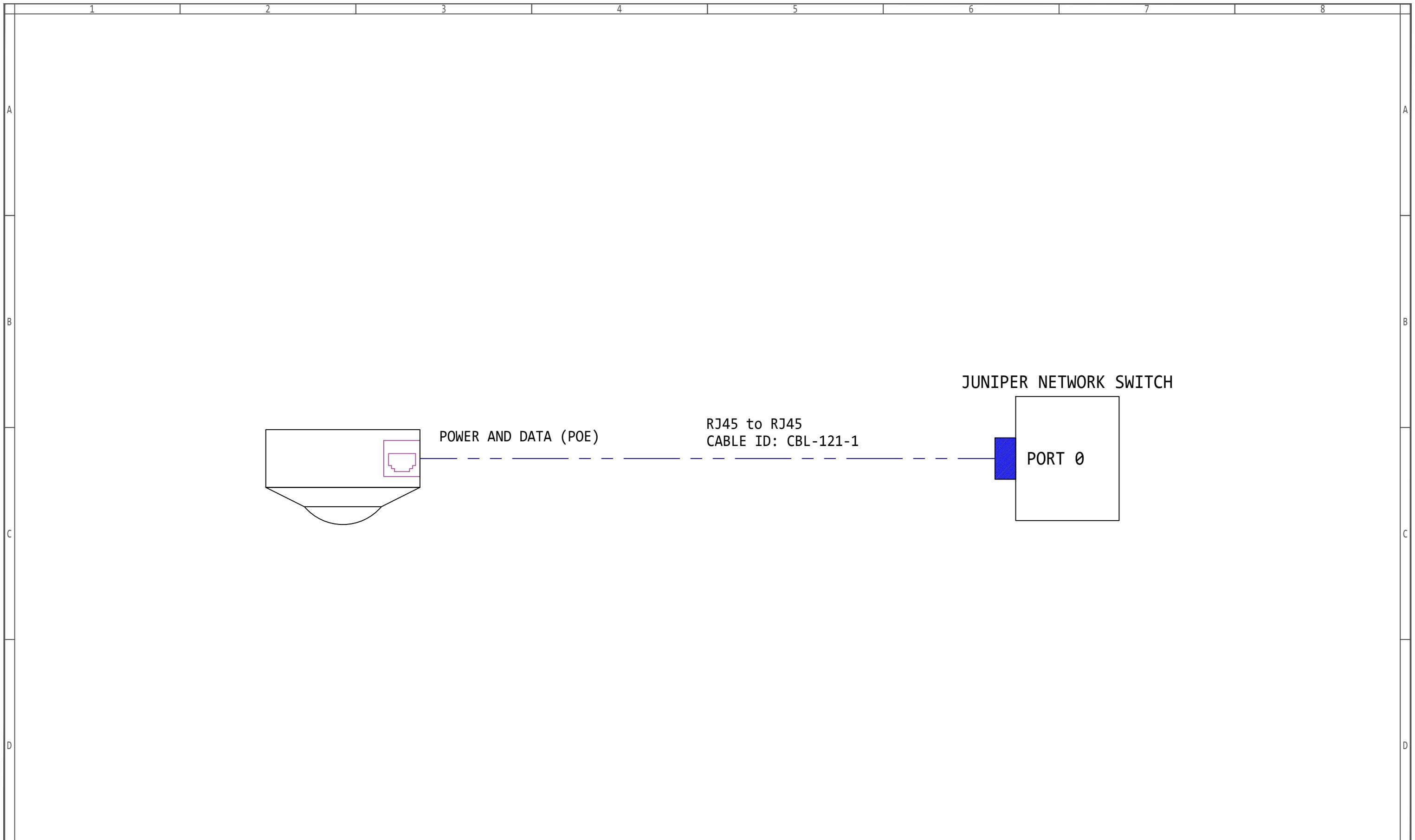
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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
PICK STATION AXIS CAMERA - WIRING

REV	SECT.	DETAIL	JOB#
J	PREV.	120	BG 117746
	SHEET	121	SPS-120
	NEXT		DWG

1 2 3 4 5 6 7 8



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



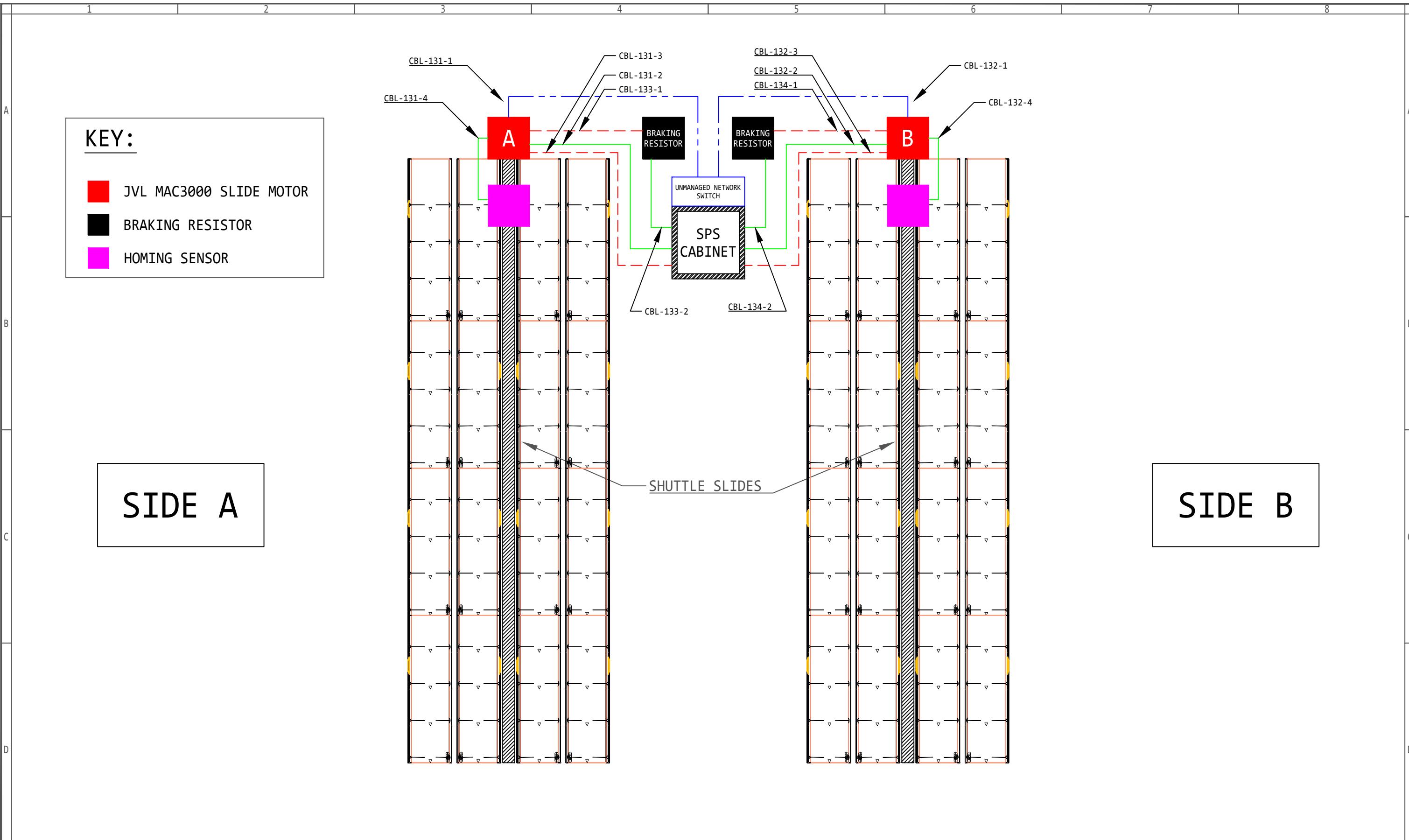
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
PICK STATION AXIS CAMERA - WIRING

REV J SECT. 120 DETAIL BG 117746  
PREV. SHEET 120 DWG SPS-120  
NEXT 121

1 2 3 4 5 6 7 8



J 2025-02-12 MPH SEE INTERCONNECT RELEASE NOTES

H 2024-10-01 TFP SEE INTERCONNECT RELEASE NOTES

G 2024-06-17 TFP SEE INTERCONNECT RELEASE NOTES

REV DATE ENGR. DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

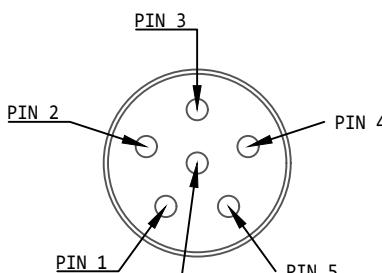
SPS V2  
INTERCONNECT DRAWING PACKAGE  
SLIDE MOTORS - OVERVIEW

REV J  
SECT. OVERVIEW  
PREV. 130  
SHEET 131  
NEXT 131  
JOB# BG 117746  
DWG SPS-130

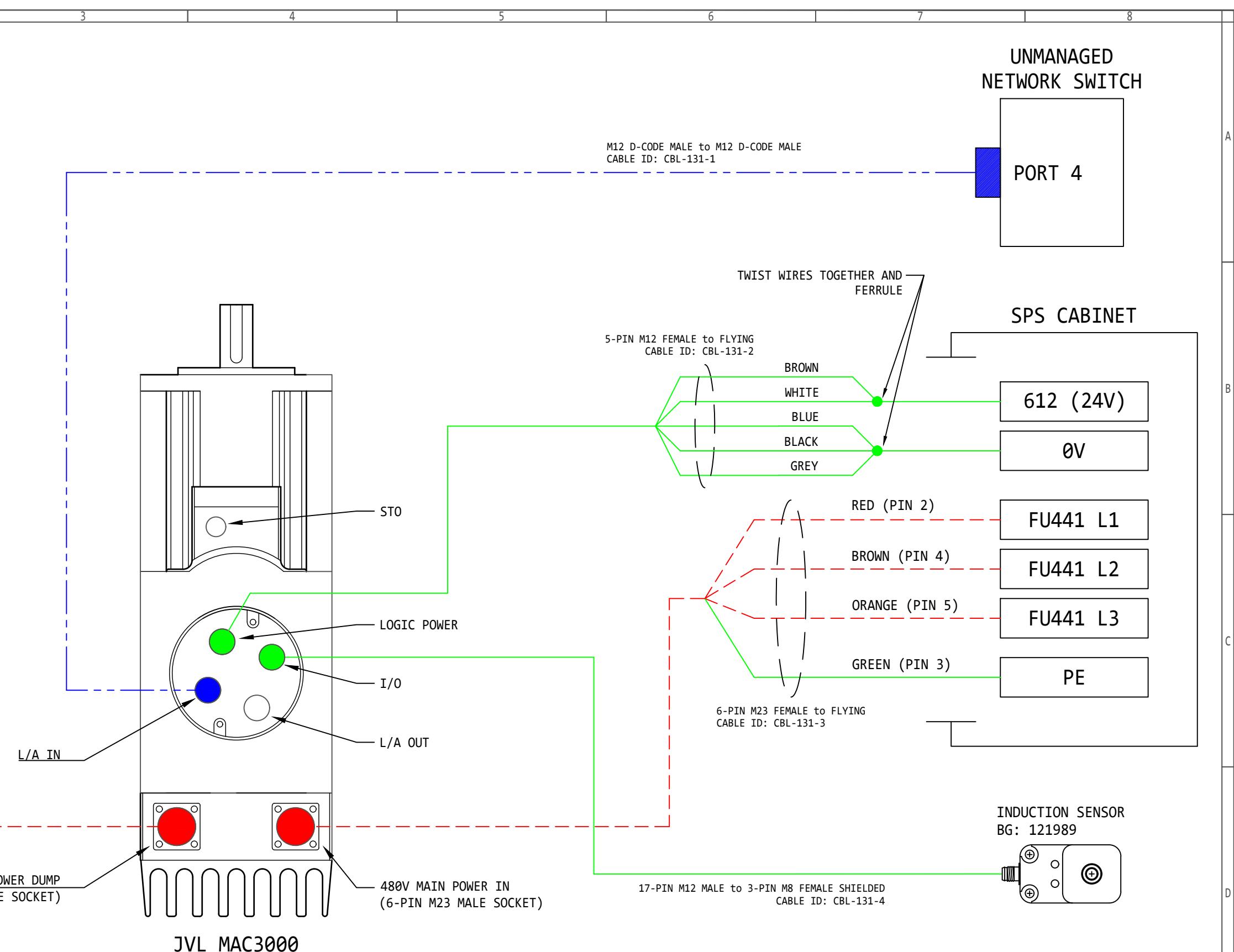
# SIDE A

## IMPORTANT WIRING NOTE

### 6-PIN M23 MALE SOCKET PINOUT



PIN 1: NOT CONNECTED  
PIN 2: L1 (U-PHASE 400-480VAC)  
PIN 3: PROTECTIVE EARTH  
PIN 4: L2 (V-PHASE 400-480VAC)  
PIN 5: L3 (W-PHASE 400-480VAC)  
PIN 6: NOT CONNECTED



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

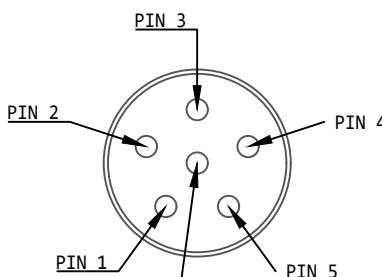
SPS V2  
INTERCONNECT DRAWING PACKAGE  
SLIDE MOTOR WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	130	BG 117746
J	SHEET	131	SPS-131
	NEXT	132	DWG SPS-131

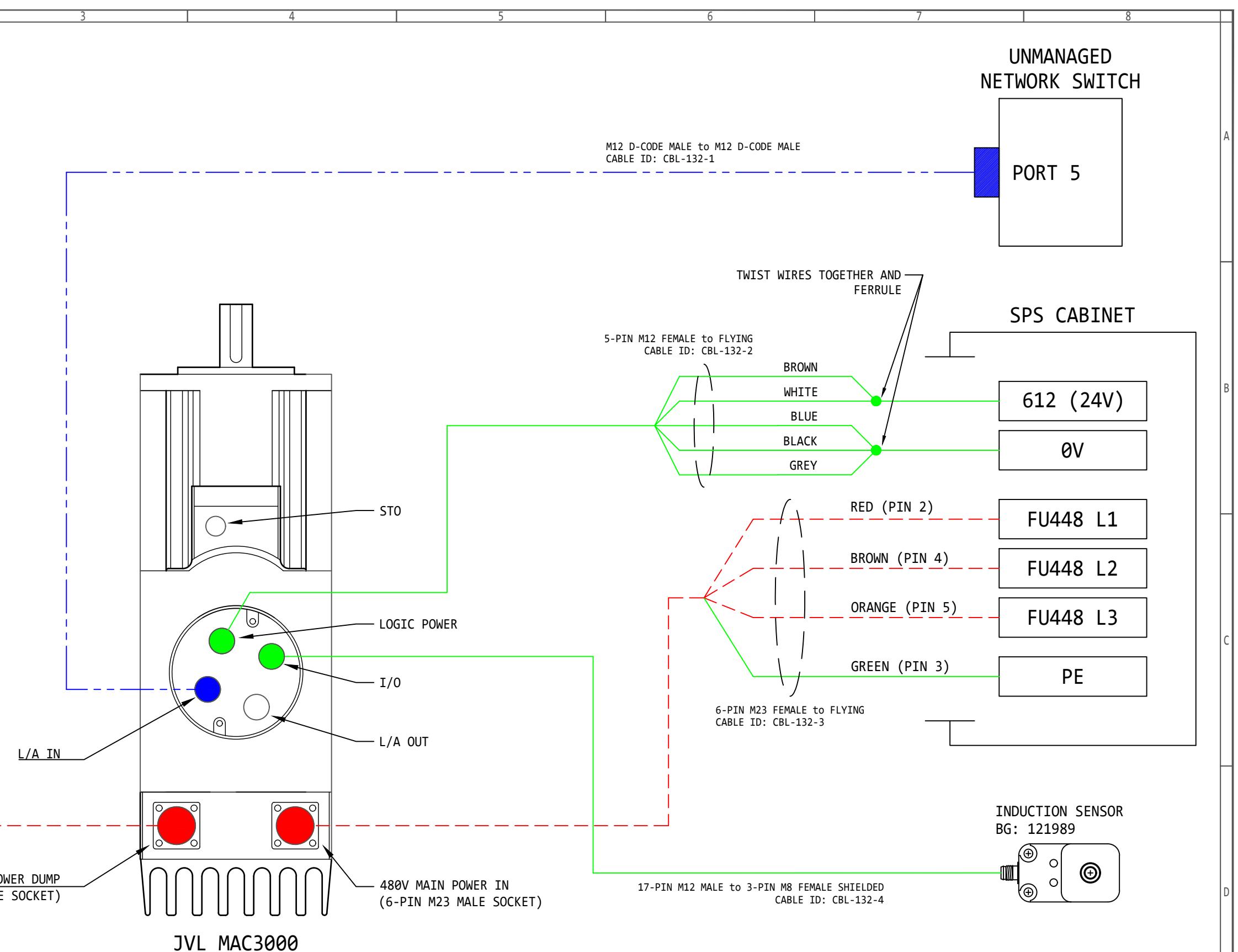
# SIDE B

## IMPORTANT WIRING NOTE

### 6-PIN M23 MALE SOCKET PINOUT



PIN 1: NOT CONNECTED  
PIN 2: L1 (U-PHASE 400-480VAC)  
PIN 3: PROTECTIVE EARTH  
PIN 4: L2 (V-PHASE 400-480VAC)  
PIN 5: L3 (W-PHASE 400-480VAC)  
PIN 6: NOT CONNECTED



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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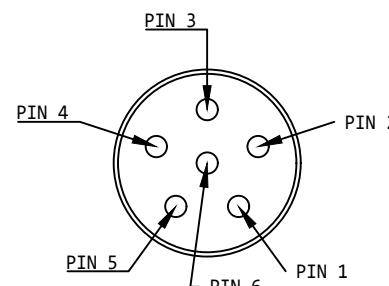
DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
SLIDE MOTOR WIRING - SIDE B

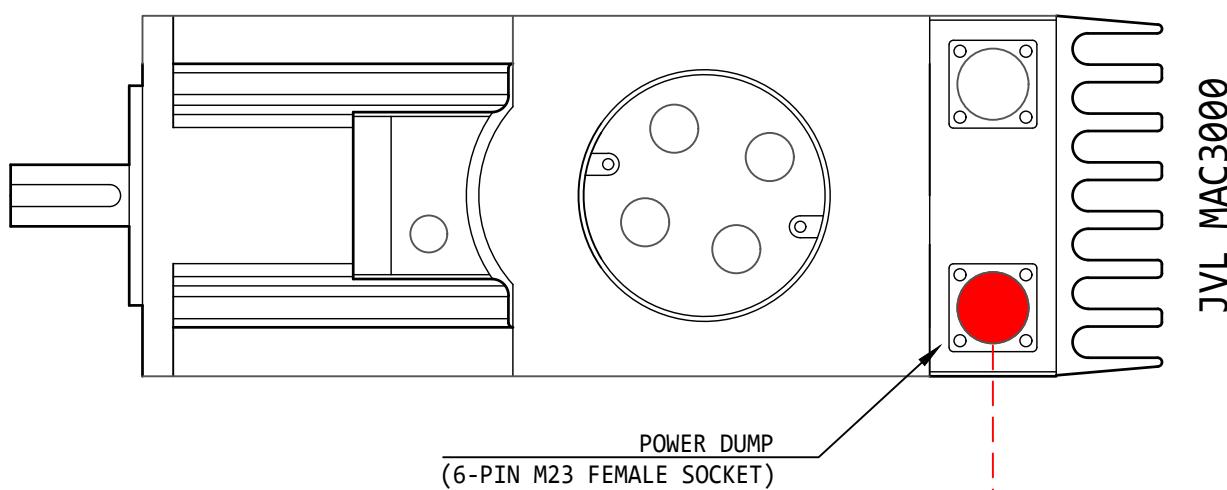
REV	SECT.	DETAIL	JOB#
	PREV.	131	BG 117746
J	SHEET	132	SPS-132
	NEXT	133	DWG SPS-132

1 2 3 4 5 6 7 8

SIDE A

**IMPORTANT  
WIRING NOTE****6-PIN M23 FEMALE SOCKET PINOUT**

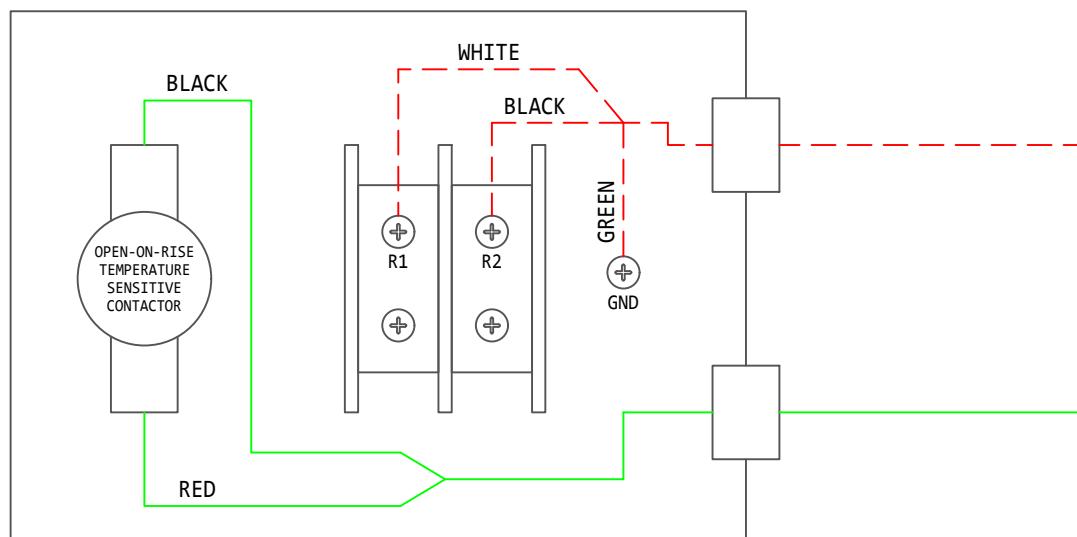
PIN 1: PD (POWER DUMP OUTPUT)  
PIN 2: BO (BUS OUT 560-680VDC)  
PIN 3: PROTECTIVE EARTH  
PIN 4: NOT CONNECTED  
PIN 5: NOT CONNECTED  
PIN 6: CM (COMMON / BUS GND)



JVL MAC3000

M23 MALE to RING TERMINALS  
CABLE ID: CBL-133-1

Note: this is a custom BG cable, PN 114382



2-CONDUCTOR FLYING to FLYING  
CABLE ID: CBL-133-2

SPS CABINET

2110

PLC

FDIA1.7

**BRAKING RESISTOR**

MFR: POWEROHM PF40R1K60

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION

140 SOUTH ROAD  
BEDFORD, MA 01730

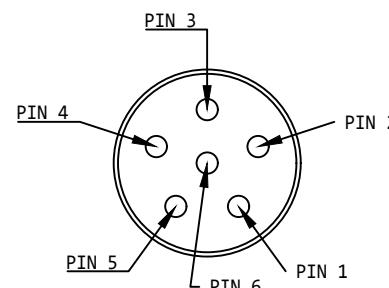
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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

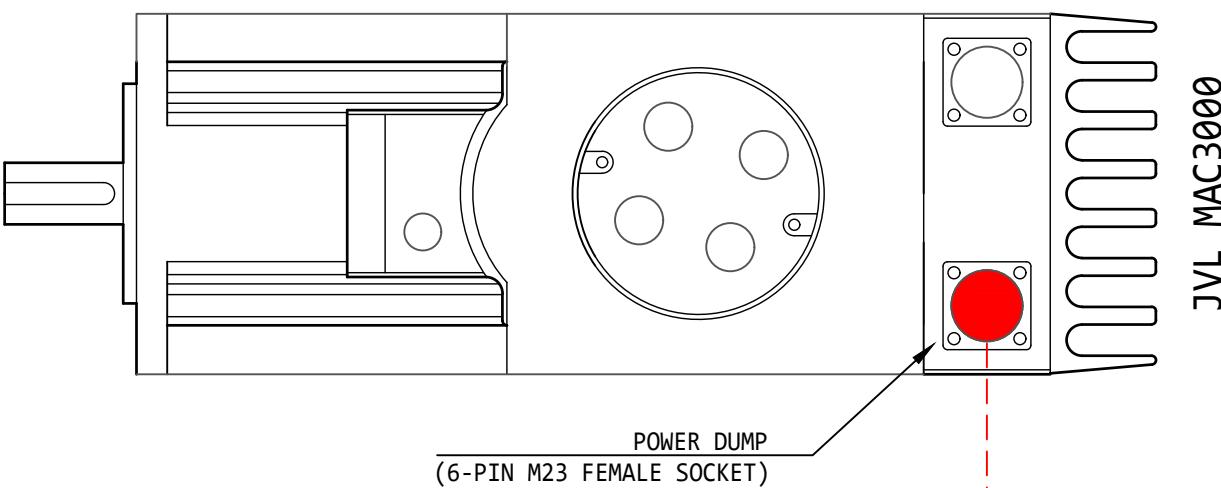
SPS V2  
INTERCONNECT DRAWING PACKAGE  
BRAKING RESISTOR WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	132	BG 117746
J	SHEET	133	SPS-133
	NEXT	134	

1 2 3 4 5 6 7 8

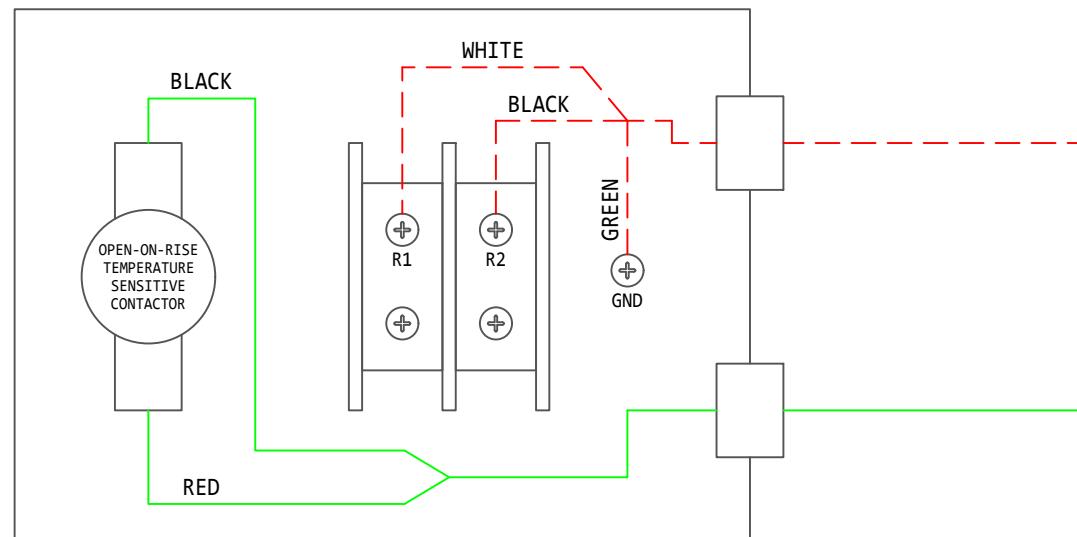
**SIDE B****IMPORTANT  
WIRING NOTE****6-PIN M23 FEMALE SOCKET PINOUT**

PIN 1: PD (POWER DUMP OUTPUT)  
PIN 2: BO (BUS OUT 560-680VDC)  
PIN 3: PROTECTIVE EARTH  
PIN 4: NOT CONNECTED  
PIN 5: NOT CONNECTED  
PIN 6: CM (COMMON / BUS GND)

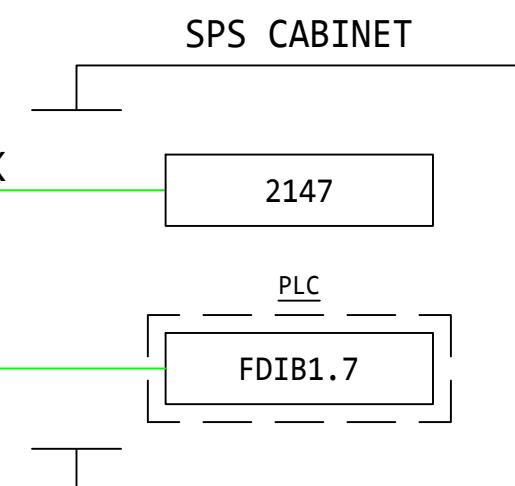
**JVL MAC3000**

**M23 MALE to RING TERMINALS**  
**CABLE ID: CBL-134-1**

*Note: this is a custom BG cable, PN 114382*

**BRAKING RESISTOR****MFR: POWEROHM PF40R1K60**

**2-CONDUCTOR FLYING to FLYING**  
**CABLE ID: CBL-134-2**



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES	<b>BERKSHIRE GREY</b> 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY. DATE 2025-02-07 SCALE N/A DRAWN TFP APPROVED	SPS V2 INTERCONNECT DRAWING PACKAGE BRAKING RESISTOR WIRING - SIDE B	REV	SECT.	DETAIL	JOB#
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES				PREV.	133		BG 117746
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES				Sheet	134		
REV	DATE	ENGR.	DESCRIPTION				Next		DWG	SPS-134

1 2 3 4 5 6 7 8

A

B

C

D

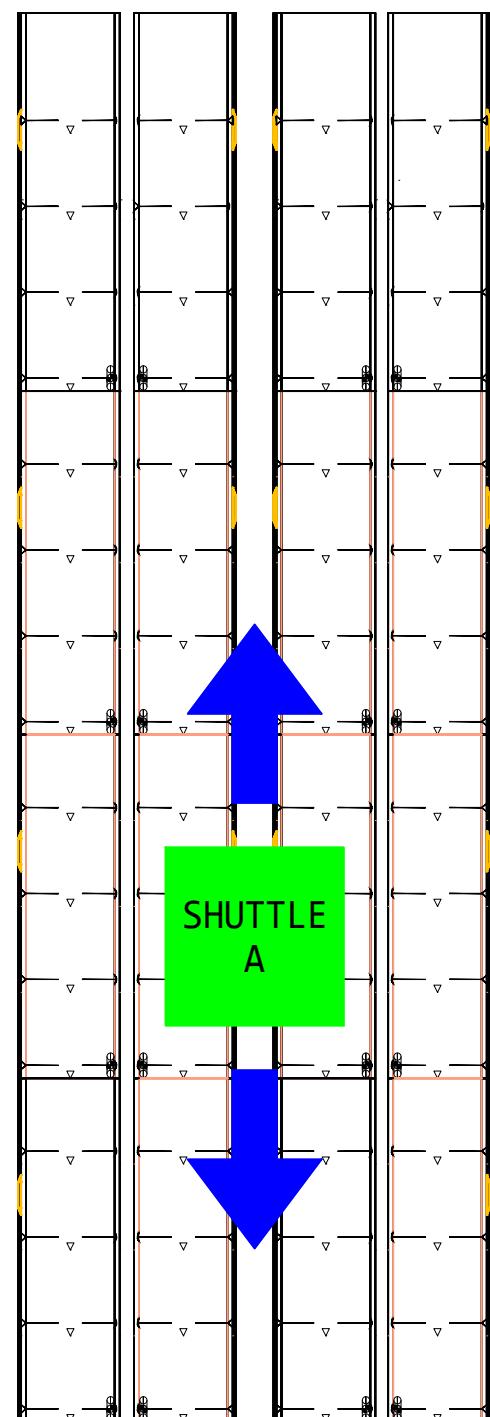
A

B

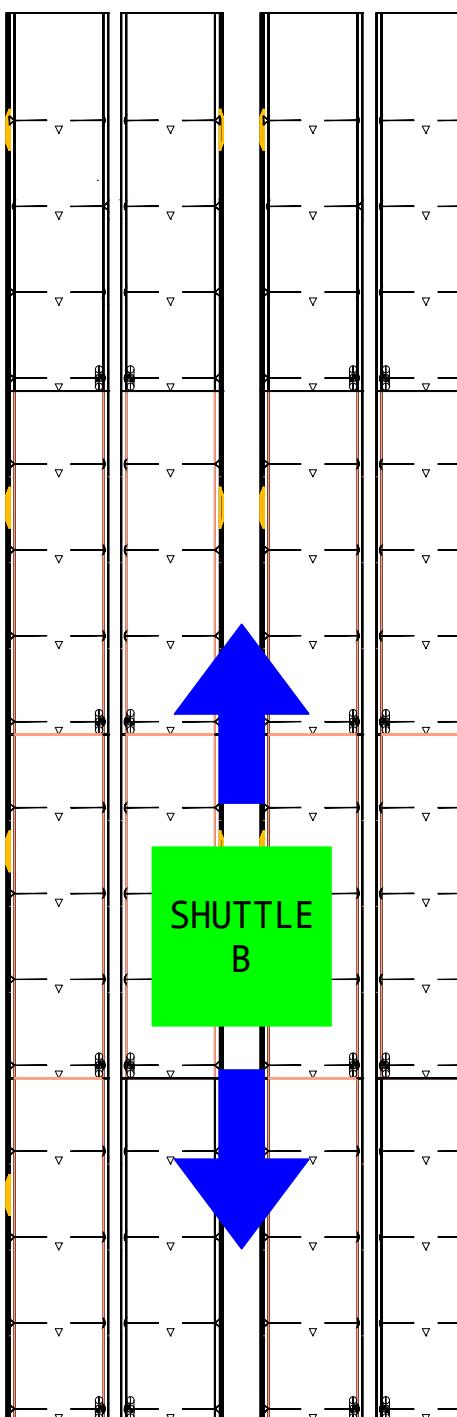
C

D

SIDE A



**SPS  
CABINET**



SIDE B

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



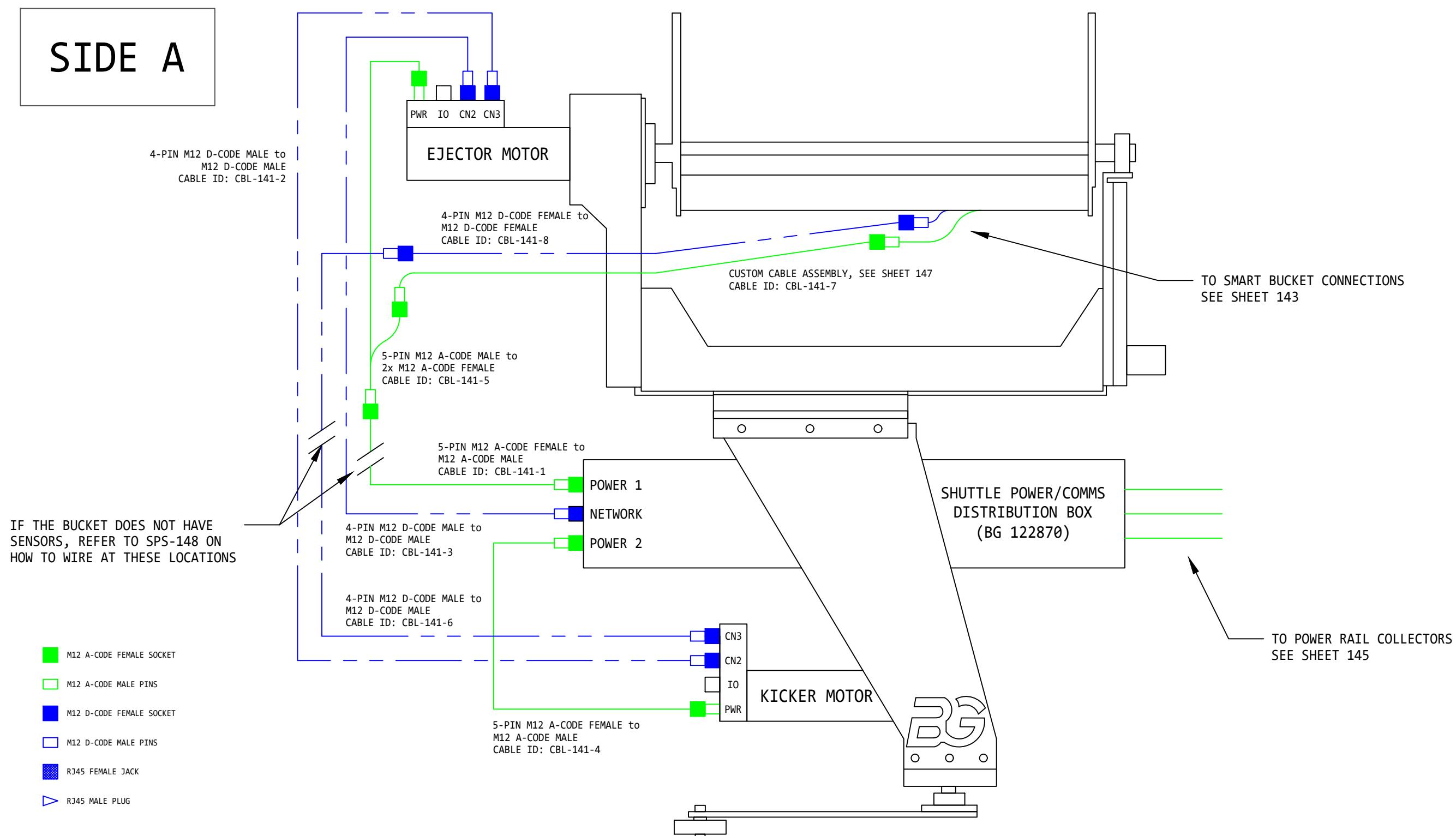
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
SHUTTLES - OVERVIEW

REV	SECT. OVERVIEW	JOB# BG 117746
J	SHEET 140	DWG SPS-140
	NEXT 141	

A

**SIDE A**

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
SHUTTLE WIRING - SIDE A WITH SMART BUCKET

REV	SECT.	DETAIL	JOB#
PREV.		140	BG 117746
SHEET		141	
NEXT		142	DWG SPS-141

A

**SIDE B**

B

C

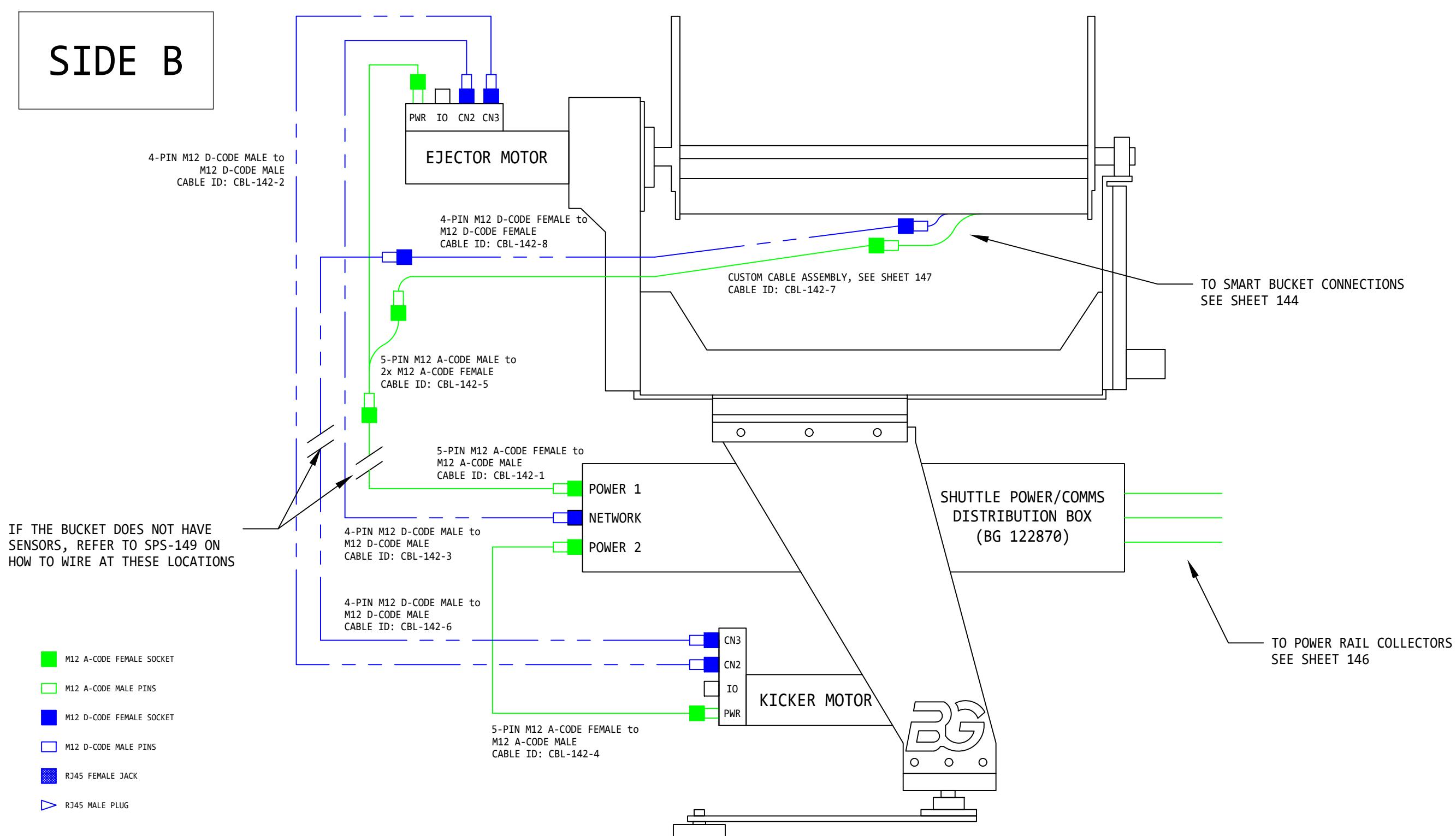
D

A

B

C

D



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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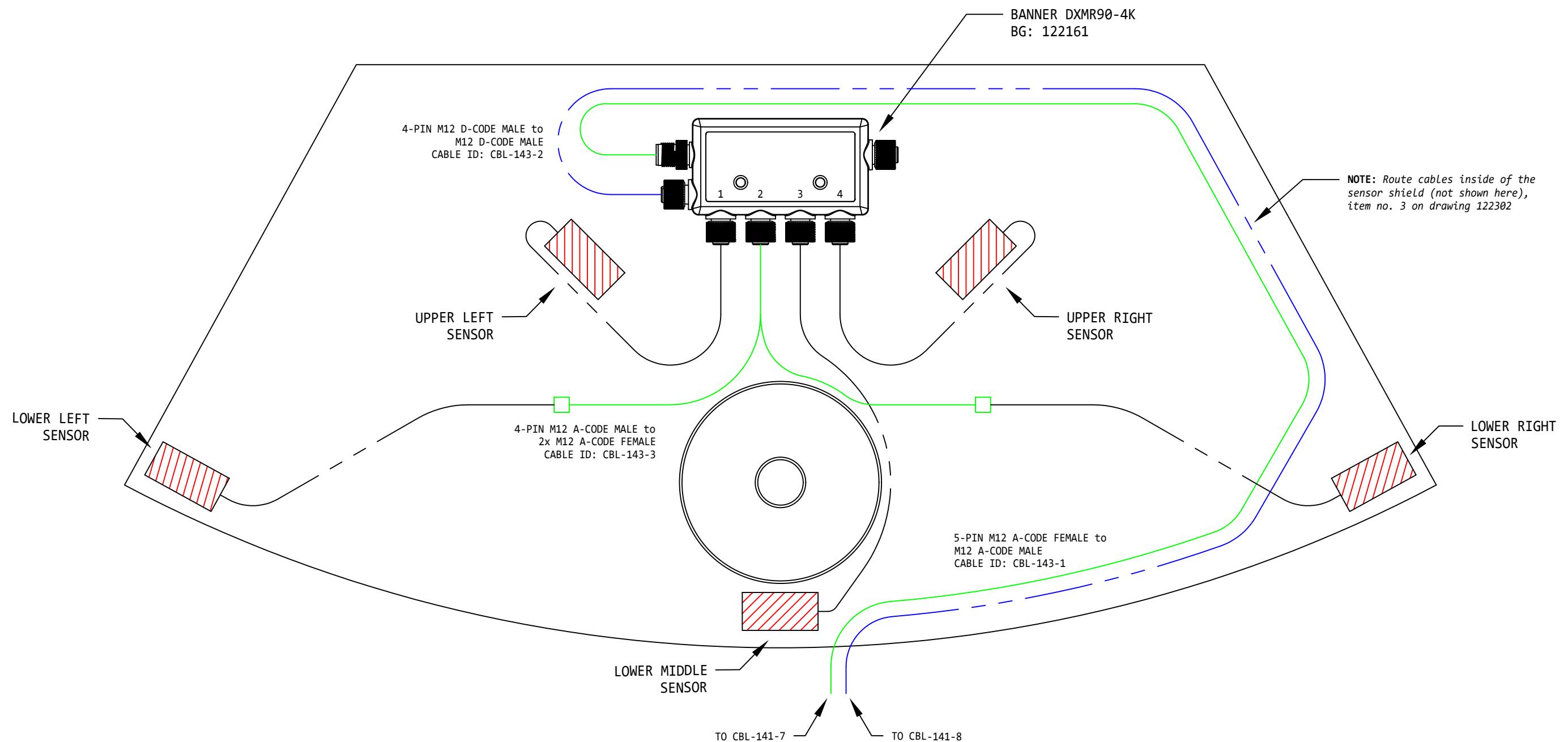
DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
SHUTTLE WIRING - SIDE B WITH SMART BUCKET

REV	SECT.	DETAIL	JOB#
PREV.		141	BG 117746
SHEET		142	SPS-142
NEXT		143	SPS-144

## SIDE A

**NOTE:** Refer to drawing BG 122302 for details of mechanical installation



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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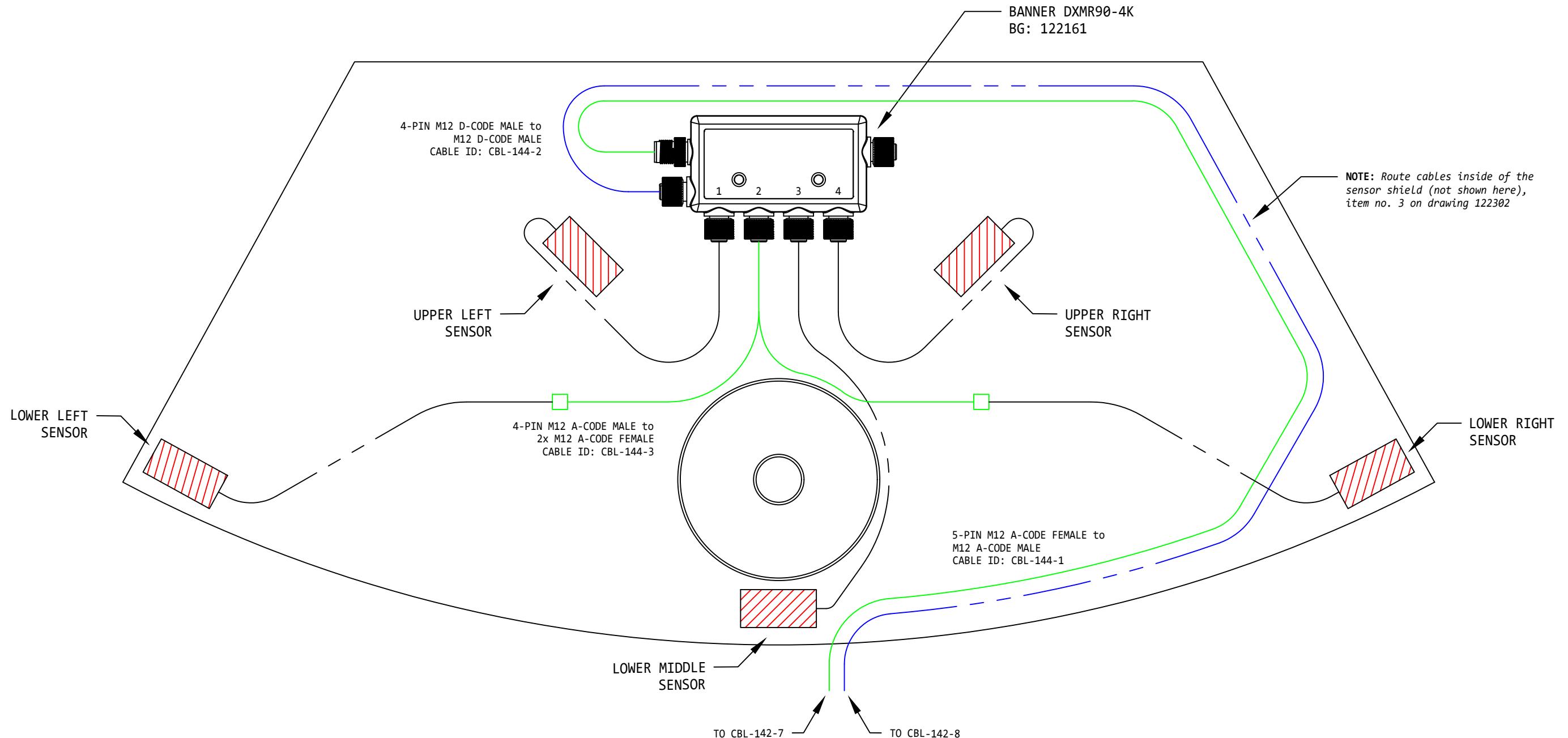
DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
BUCKET SENSOR WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	142	BG 117746
J	SHEET	143	SPS-143
	NEXT	144	DWG SPS-143

## SIDE B

**NOTE:** Refer to drawing BG 122302 for details of mechanical installation



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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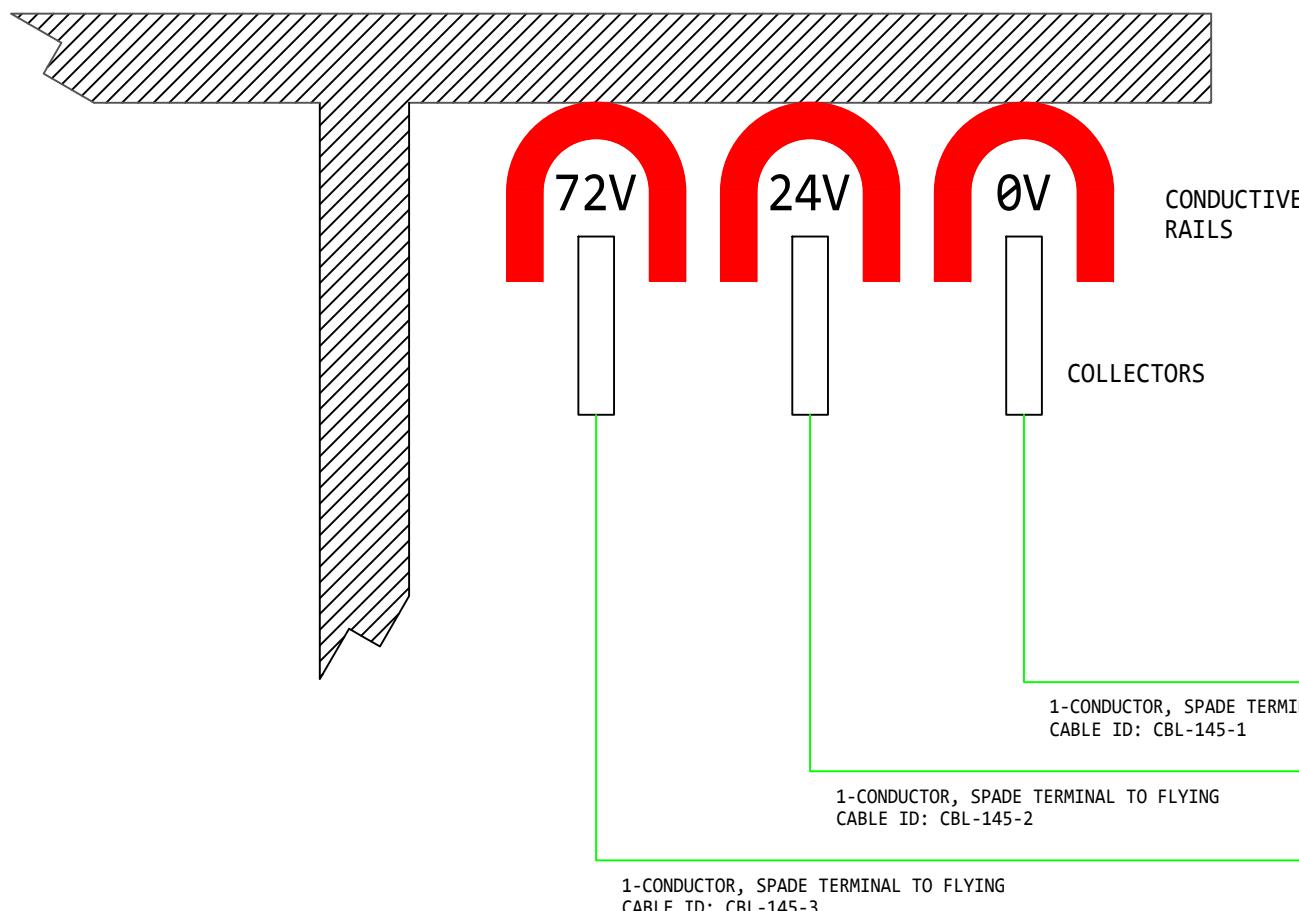
DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
BUCKET SENSOR WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
	PREV.	143	BG 117746
J	SHEET	144	SPS-144
	NEXT	145	

## SIDE A

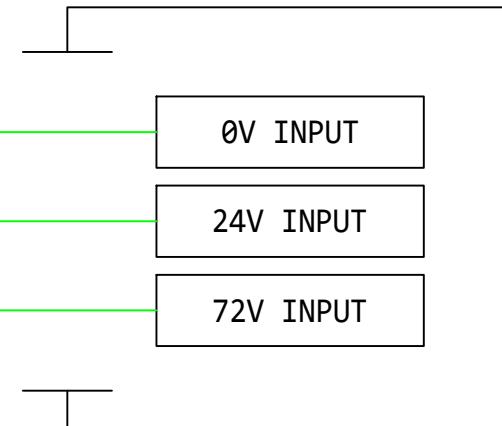
BEAM CROSS SECTION



**NOTE:** Refer to drawing BG 122870 for the Shuttle Power/Comms Distribution Box electrical schematic

**NOTE:** Pull cables through shuttle box cord grip until minimal slack remains

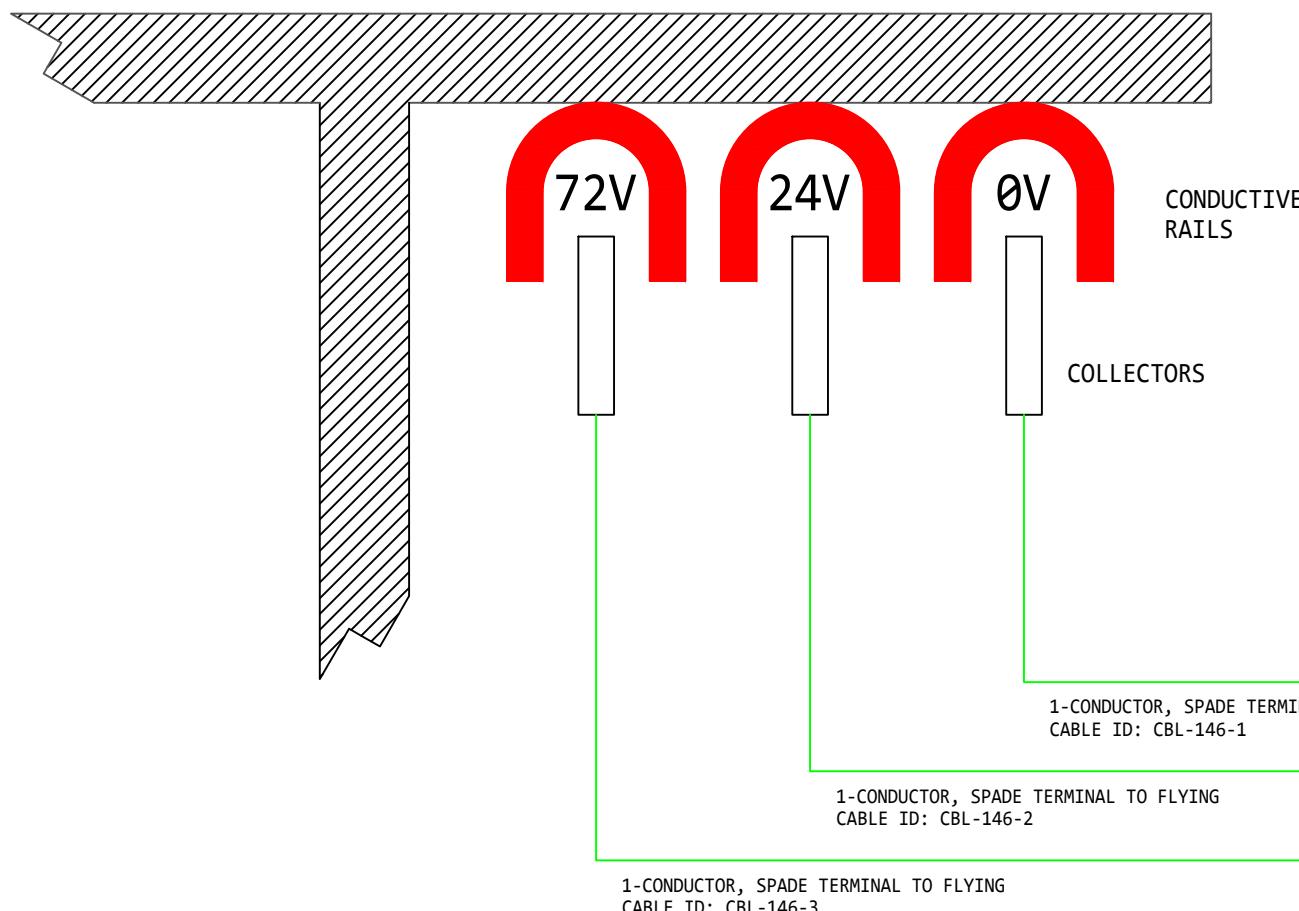
SHUTTLE POWER/COMMS DISTRIBUTION BOX



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES	<b>BG</b> BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY. DATE 2025-02-07 SCALE N/A DRAWN TFP APPROVED	SPS V2 INTERCONNECT DRAWING PACKAGE SHUTTLE POWER BOX WIRING - SIDE A	REV	SECT.	DETAIL	JOB#	
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES				PREV.	144			BG 117746
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES				SHEET	145			SPS-145
REV	DATE	ENGR.	DESCRIPTION				NEXT	146			

## SIDE B

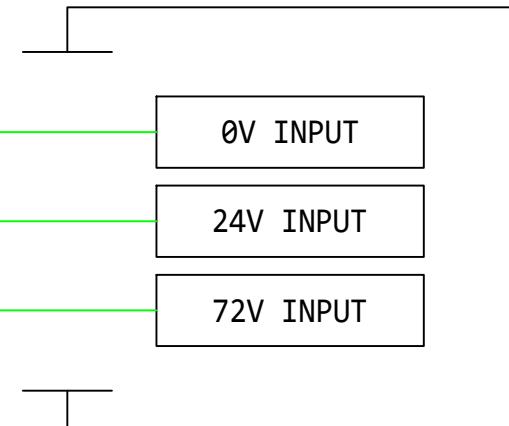
## BEAM CROSS SECTION



**NOTE:** Refer to drawing BG 122870 for the Shuttle Power/Comms Distribution Box electrical schematic

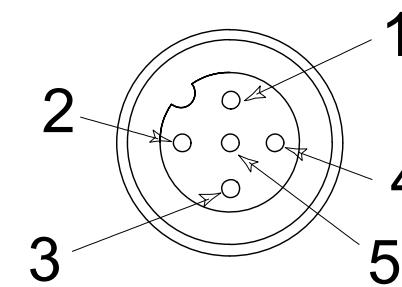
**NOTE:** Pull cables through shuttle box cord grip until minimal slack remains

## SHUTTLE POWER/COMMS DISTRIBUTION BOX

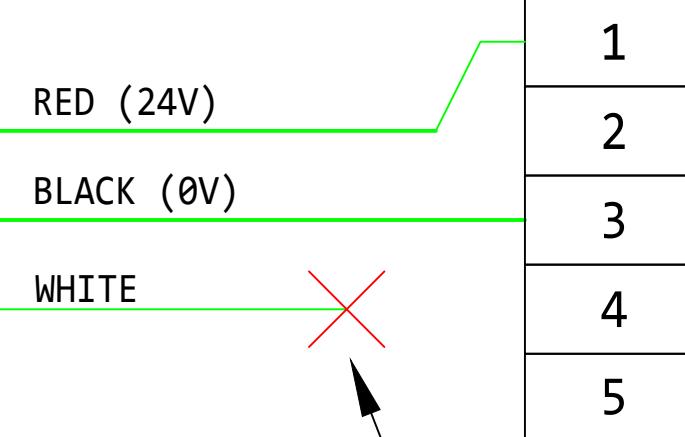


J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES	<b>BG</b> BERKSHIRE GREY 140 SOUTH ROAD BEDFORD, MA 01730	THIS DRAWING IS THE PROPERTY OF BERKSHIRE GREY INC. NEITHER THE DRAWING, NOR INFORMATION DERIVED FROM IT IS TO BE GIVEN TO OTHERS. NO USE IS TO BE MADE OF IT WHICH IS OR MAY BE INJURIOUS TO BERKSHIRE GREY. DATE 2025-02-07 SCALE N/A DRAWN TFP APPROVED	SPS V2 INTERCONNECT DRAWING PACKAGE SHUTTLE POWER BOX WIRING - SIDE B	REV	SECT.	DETAIL	JOB#	
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES				PREV.	145			BG 117746
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES				SHEET	146			SPS-146
REV	DATE	ENGR.	DESCRIPTION				NEXT	147			

BOTH SIDES



M12 5-PIN A-CODE FEMALE  
FIELD WIREABLE (BG 122363)

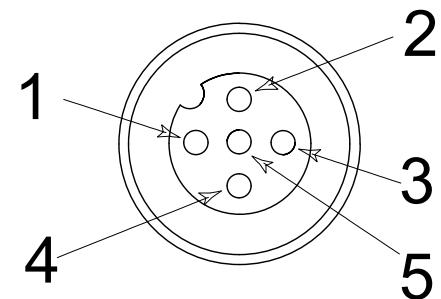


NOT USED; CUT AND INSULATE

1
2
3
4
5

WHITE  
BLACK (0V)  
RED (24V)

NOTE: This is a coiled,  
3-conductor, flying-to-flying  
cable. Cut to length as  
specified in the mechanical  
drawings (BG 122302).



M12 5-PIN A-CODE MALE  
FIELD WIREABLE (BG 122364)

J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION

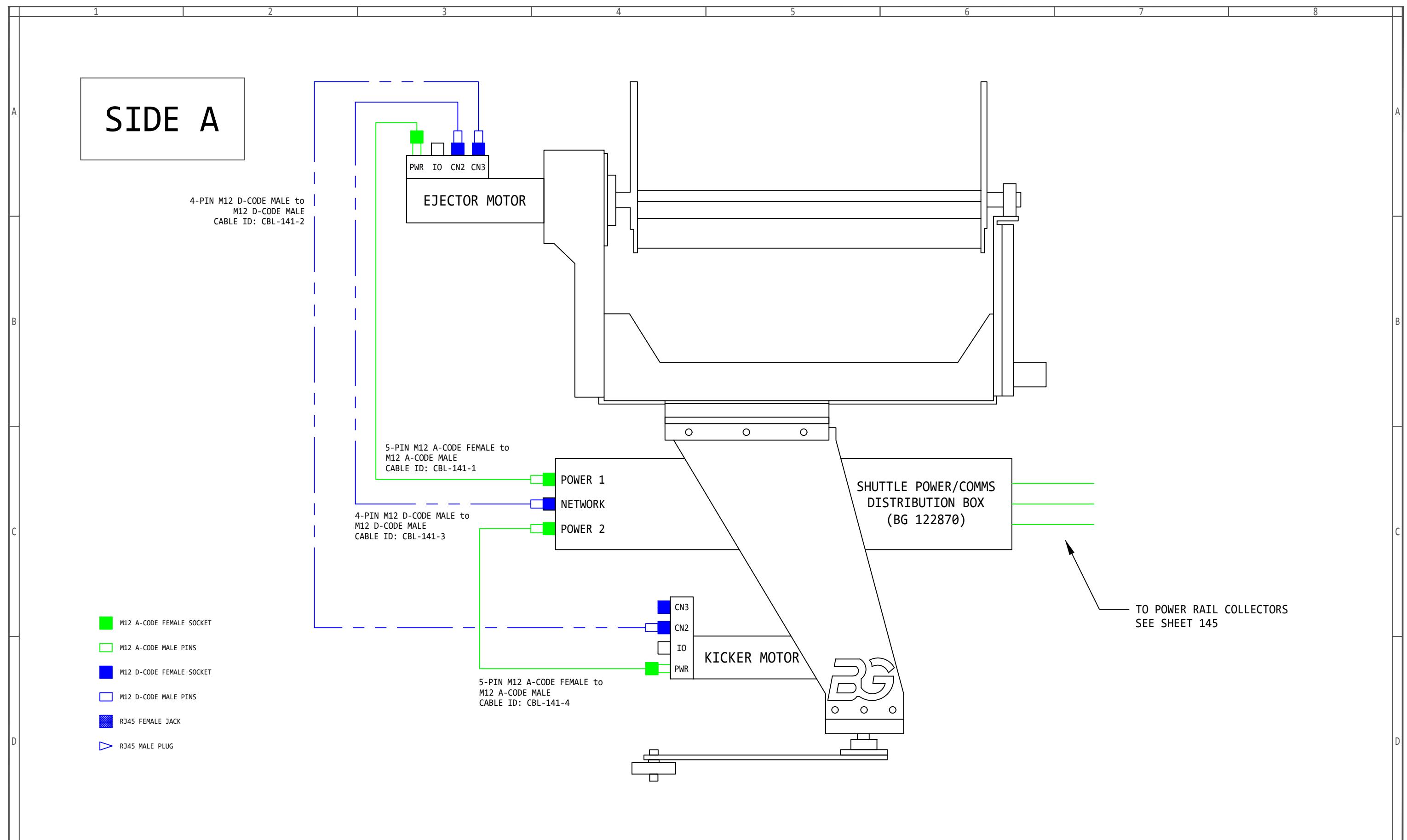


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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
BUCKET SENSOR WIRING - REFERENCE

REV	SECT.	DETAIL	JOB#
	PREV.	146	BG 117746
J	SHEET	147	SPS-147
	NEXT		SPS-147



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



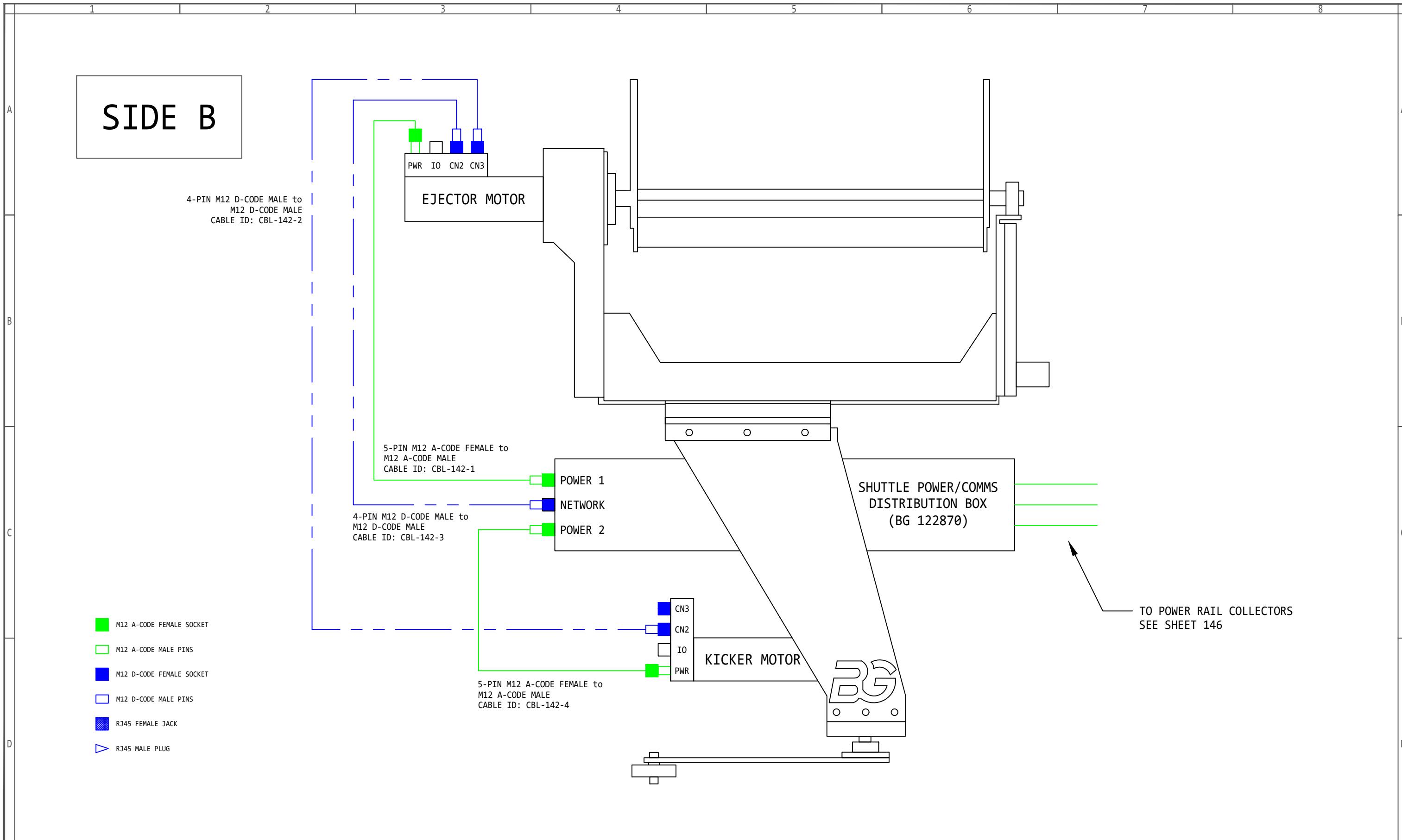
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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
SHUTTLE WIRING - SIDE A WITHOUT SMART BUCKET

REV	SECT.	DETAIL	JOB#
	PREV.	146	BG 117746
J	SHEET	147	SPS-147
	NEXT		DWG SPS-147

1 2 3 4 5 6 7 8



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



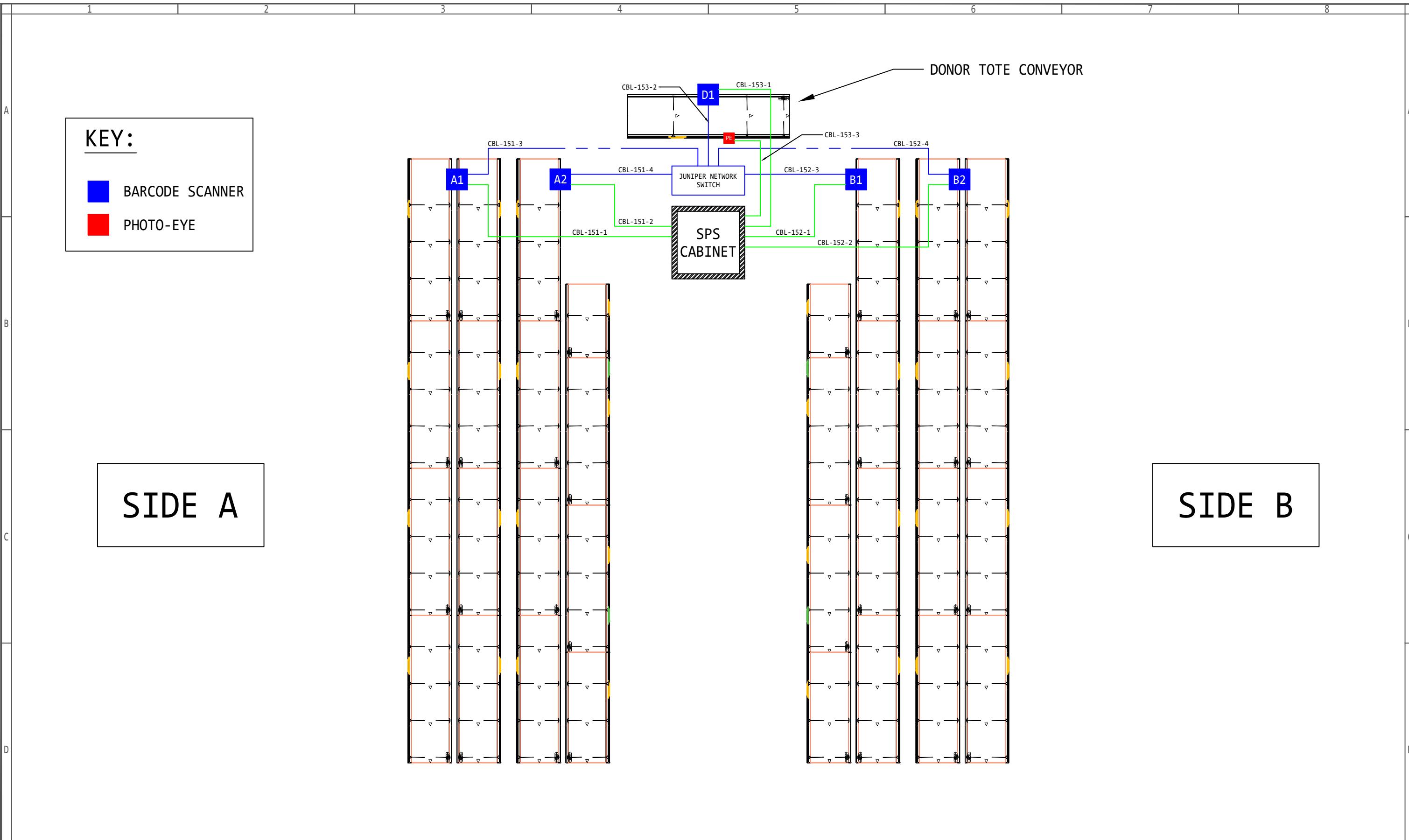
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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
SHUTTLE WIRING - SIDE B WITHOUT SMART BUCKET

REV	SECT.	DETAIL	JOB#
PREV.		146	BG 117746
SHEET		147	SPS-147
NEXT			DWG SPS-147

1 2 3 4 5 6 7 8



J 2025-02-12 MPH SEE INTERCONNECT RELEASE NOTES

H 2024-10-01 TFP SEE INTERCONNECT RELEASE NOTES

G 2024-06-17 TFP SEE INTERCONNECT RELEASE NOTES

REV DATE ENGR. DESCRIPTION



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DATE 2025-02-07

SCALE N/A

DRAWN TFP

APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
BARCODE SCANNERS - OVERVIEW

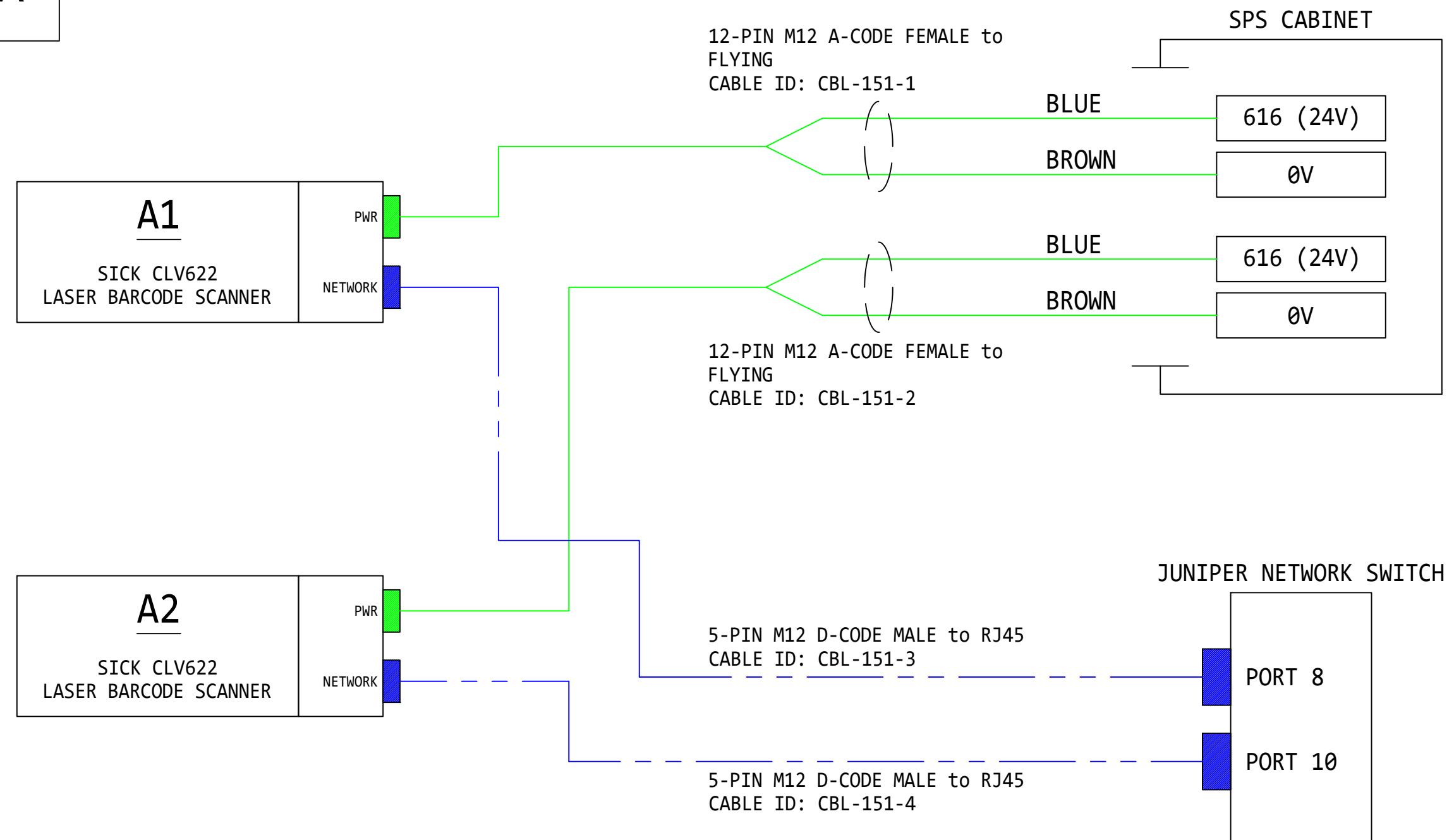
REV J SECT. OVERVIEW PREV. SHEET 150

NEXT 151 DWG SPS-150

JOB# BG 117746

DWG SPS-150

# SIDE A



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



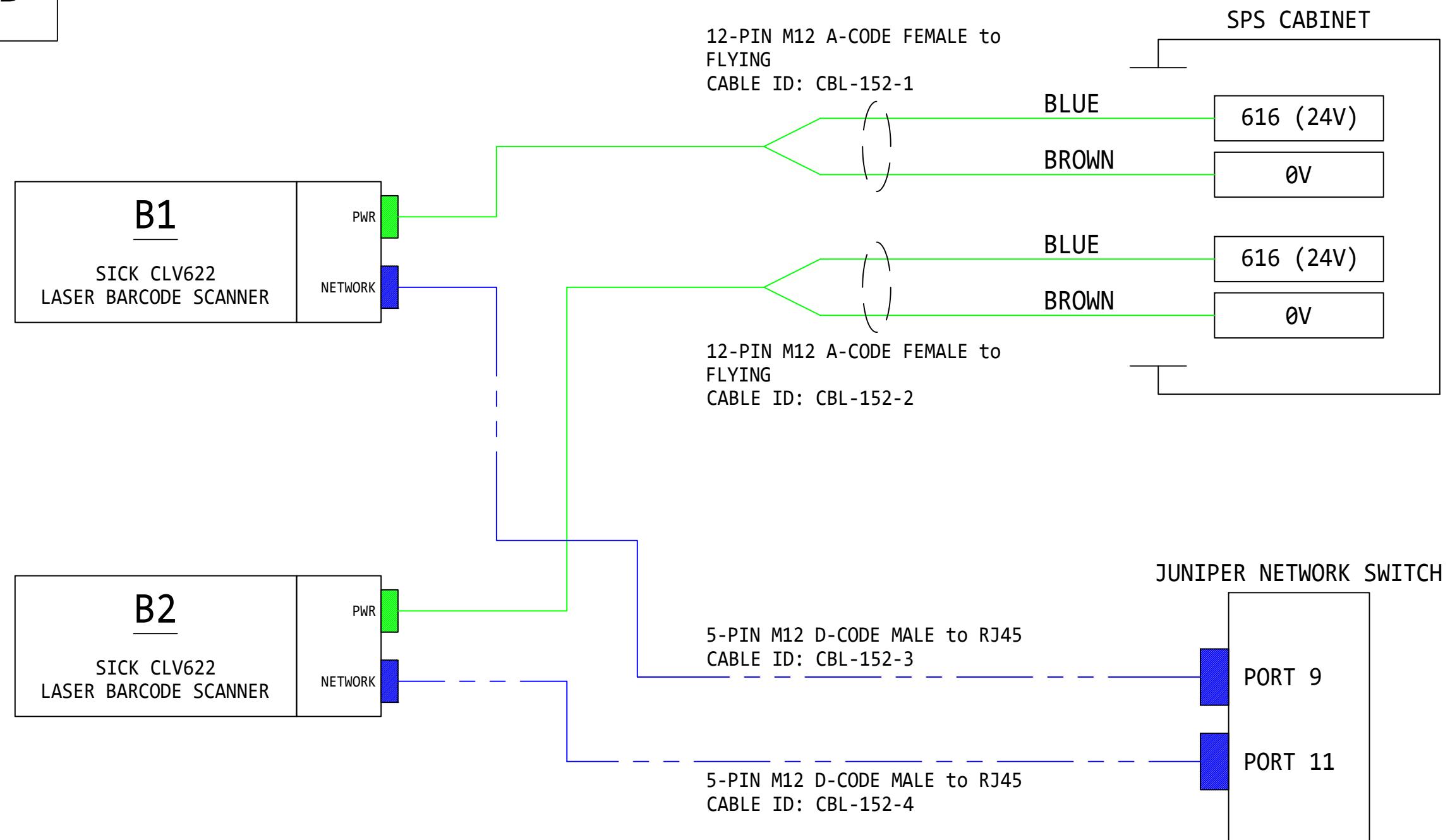
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
BARCODE SCANNER WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	150	BG 117746
J	SHEET	151	SPS-151
	NEXT	152	

# SIDE B



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION

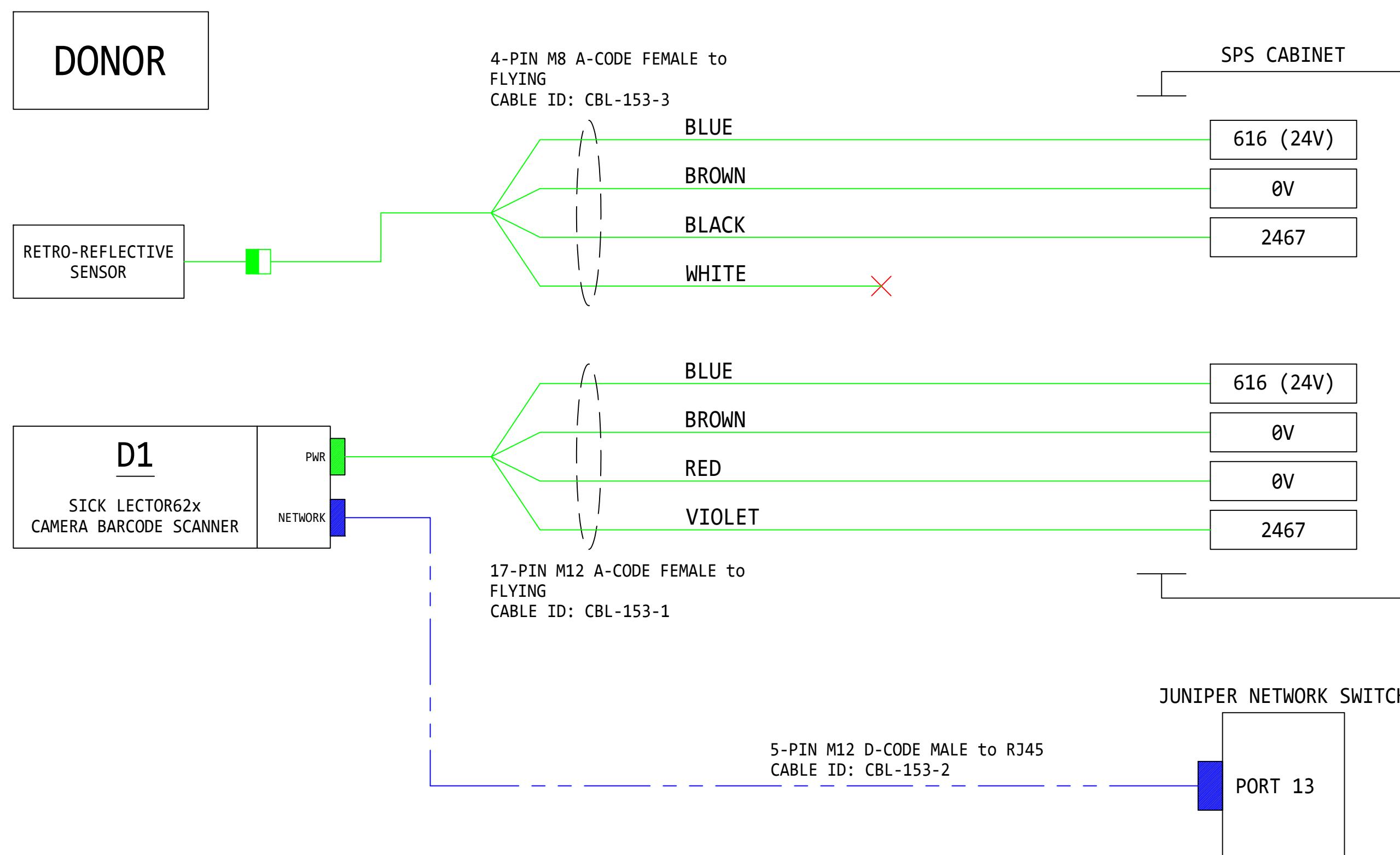


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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
BARCODE SCANNER WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
	PREV.	151	BG 117746
J	SHEET	152	SPS-152
	NEXT	153	DWG SPS-152



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



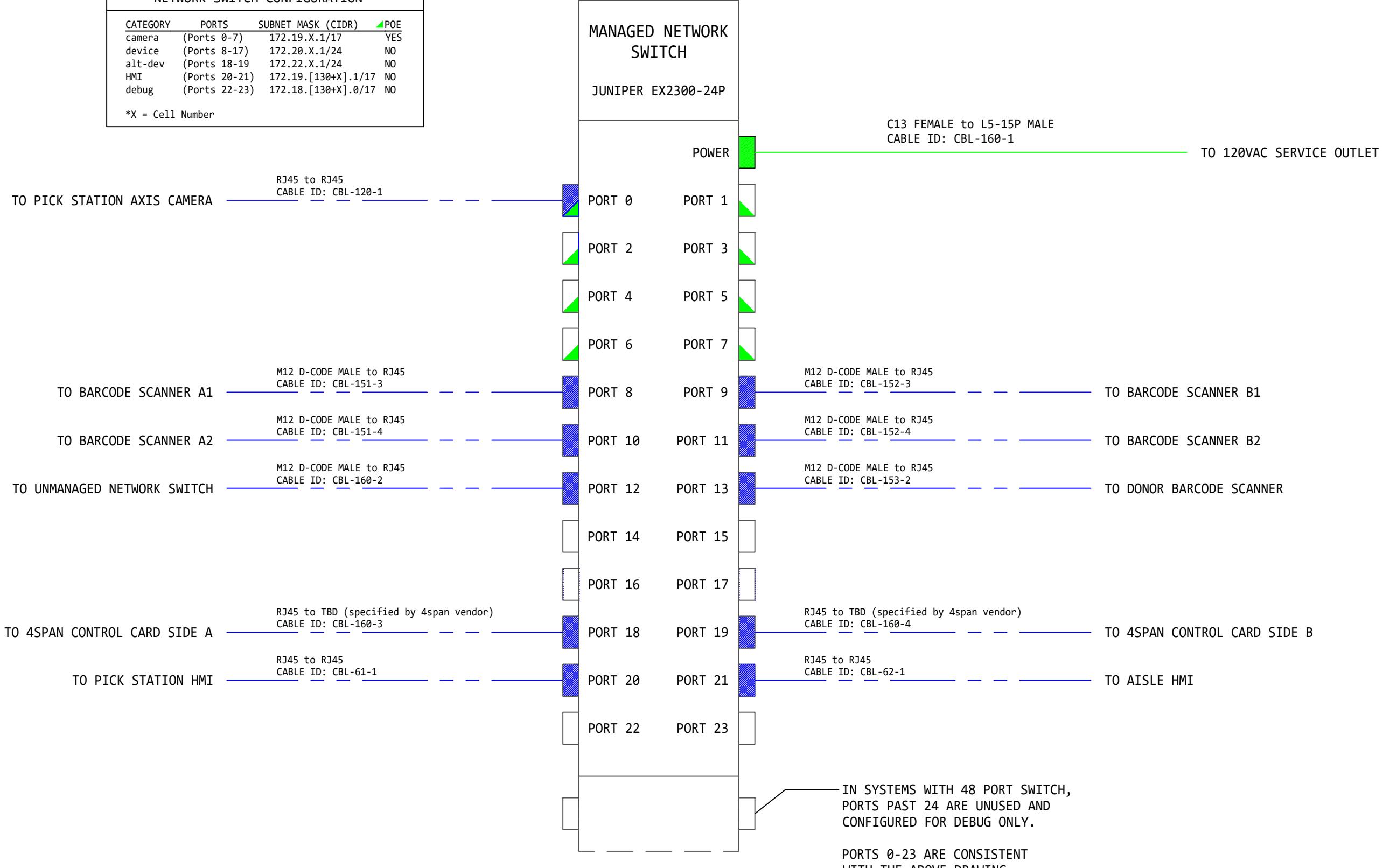
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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
BARCODE SCANNER WIRING - DONOR

NETWORK SWITCH CONFIGURATION			
CATEGORY	POR	SUBNET MASK (CIDR)	POE
camera	(Ports 0-7)	172.19.X.1/17	YES
device	(Ports 8-17)	172.20.X.1/24	NO
alt-dev	(Ports 18-19)	172.22.X.1/24	NO
HMI	(Ports 20-21)	172.19.[130+X].1/17	NO
debug	(Ports 22-23)	172.18.[130+X].0/17	NO

\*X = Cell Number



G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
F	2023-01-31	TFP	SEE INTERCONNECT RELEASE NOTES
E	2023-10-31	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



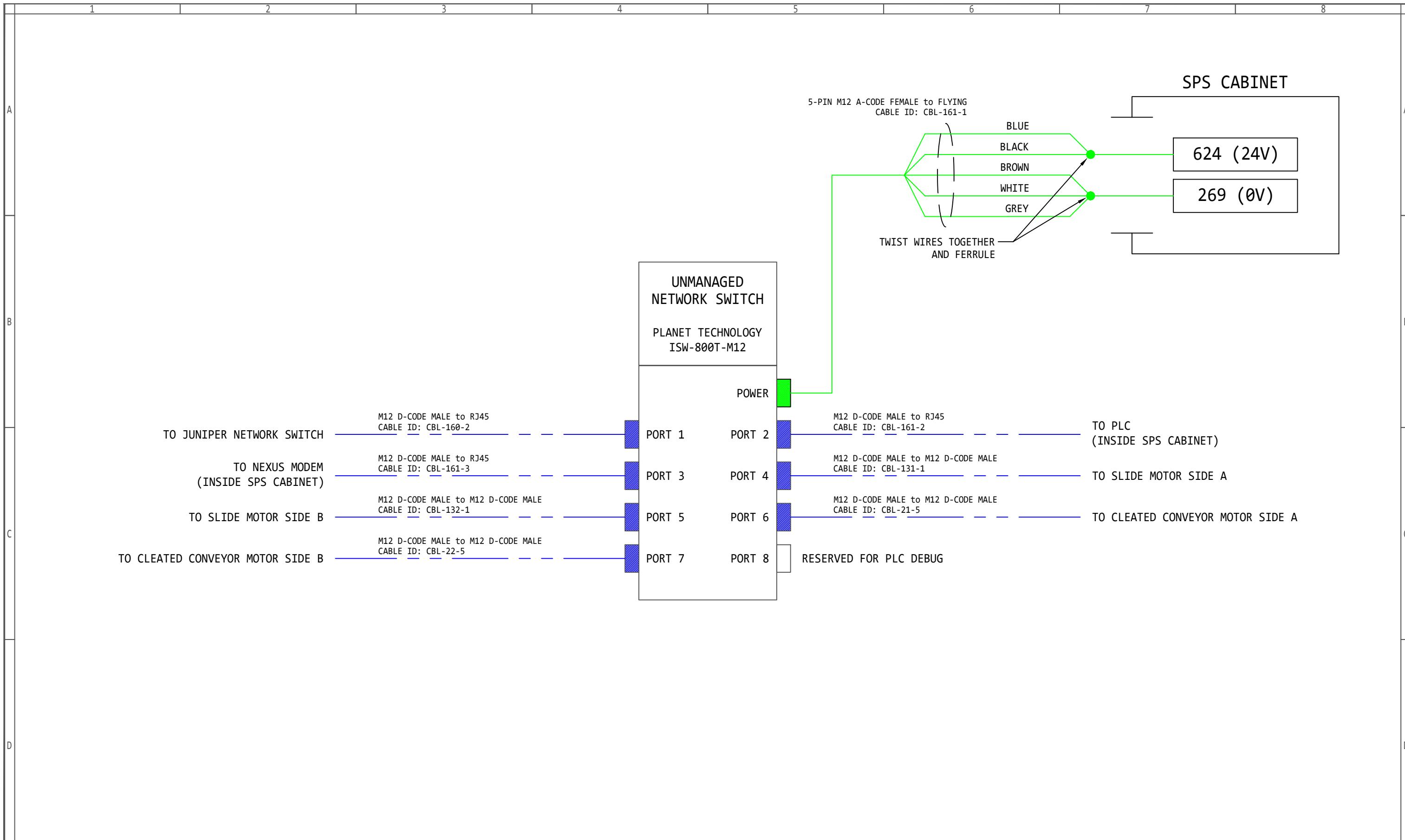
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DATE	2024-08-20
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
SECTION 140 - STANDALONE DRAWING SET  
JUNIPER NETWORK SWITCH - WIRING

REV	SECT.	DETAIL	JOB#
N/A	PREV.	160	BG 117746
N/A	SHEET	161	SPS-160

1 2 3 4 5 6 7 8



G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
F	2023-01-31	TFP	SEE INTERCONNECT RELEASE NOTES
E	2023-10-31	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2024-08-20  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
UNMANAGED NETWORK SWITCH - WIRING

REV	SECT.	DETAIL	JOB#
	PREV.	160	BG 117746
N/A	SHEET	161	SPS-161
	NEXT		DWG

1 2 3 4 5 6 7 8

A

**KEY:**
 GATE INTERLOCK

B

**SIDE A**

C

D

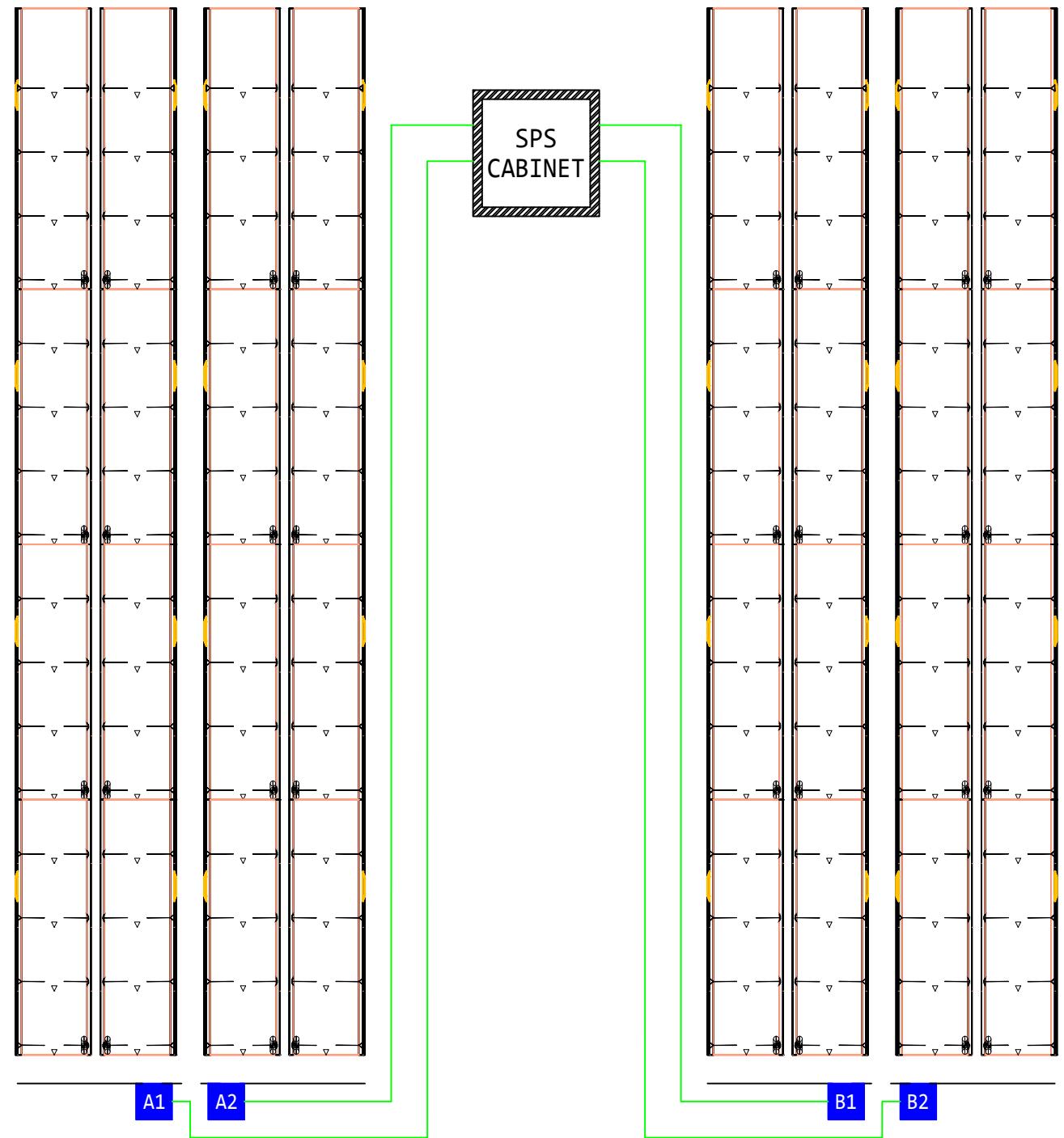
A

B

**SIDE B**

C

D



J 2025-02-12 MPH SEE INTERCONNECT RELEASE NOTES

H 2024-10-01 TFP SEE INTERCONNECT RELEASE NOTES

G 2024-06-17 TFP SEE INTERCONNECT RELEASE NOTES

REV DATE ENGR. DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
GATE INTERLOCKS - OVERVIEW

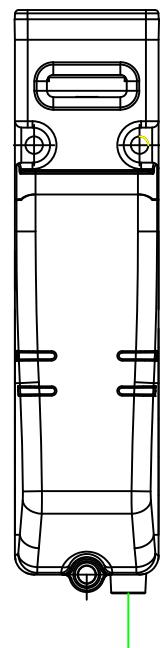
REV J  
SECT. PREV. SHEET 170  
OVERVIEW NEXT 171

JOB# BG 117746  
DWG SPS-170

# SIDE A

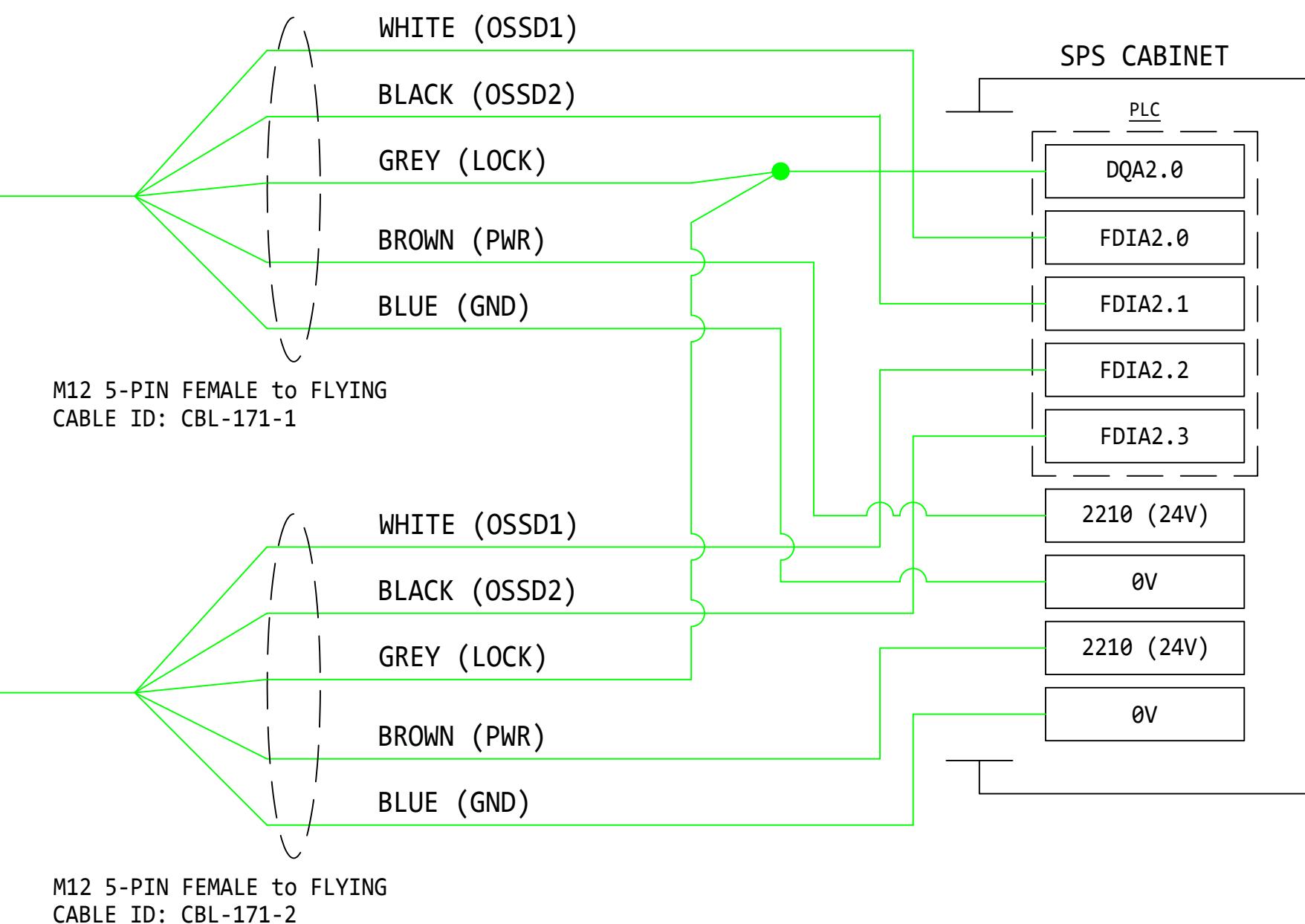
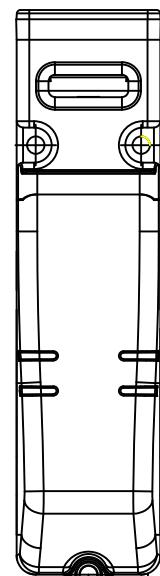
A1

440G-MZS20SNLJ



A2

440G-MZS20SNLJ



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

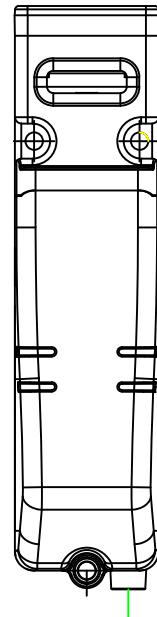
SPS V2  
INTERCONNECT DRAWING PACKAGE  
GATE INTERLOCKS WIRING - SIDE A

REV	SECT.	DETAIL	JOB#
	PREV.	170	BG 117746
J	SHEET	171	SPS-171
	NEXT	172	

SIDE B

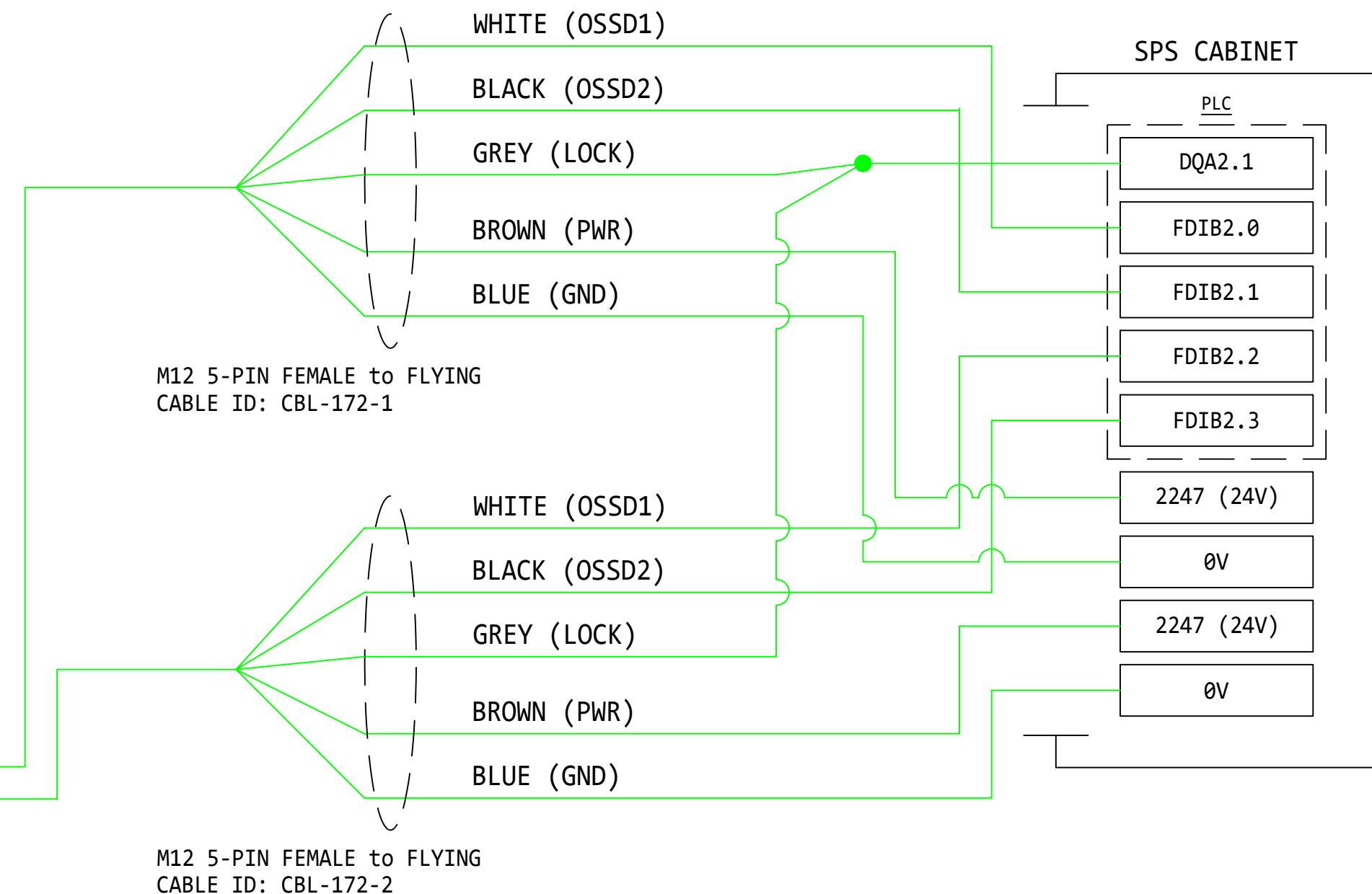
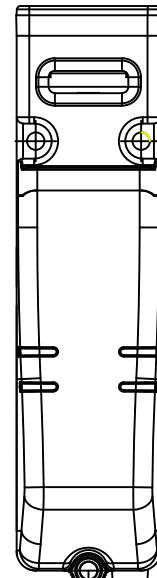
B1

440G-MZS20SNLJ



B2

440G-MZS20SNLJ



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE	2025-02-07
SCALE	N/A
DRAWN	TFP
APPROVED	

SPS V2  
INTERCONNECT DRAWING PACKAGE  
GATE INTERLOCKS WIRING - SIDE B

REV	SECT.	DETAIL	JOB#
	PREV.	171	BG 117746
J	SHEET	172	SPS-172

1 2 3 4 5 6 7 8

**BARCODE SCANNER KIT**

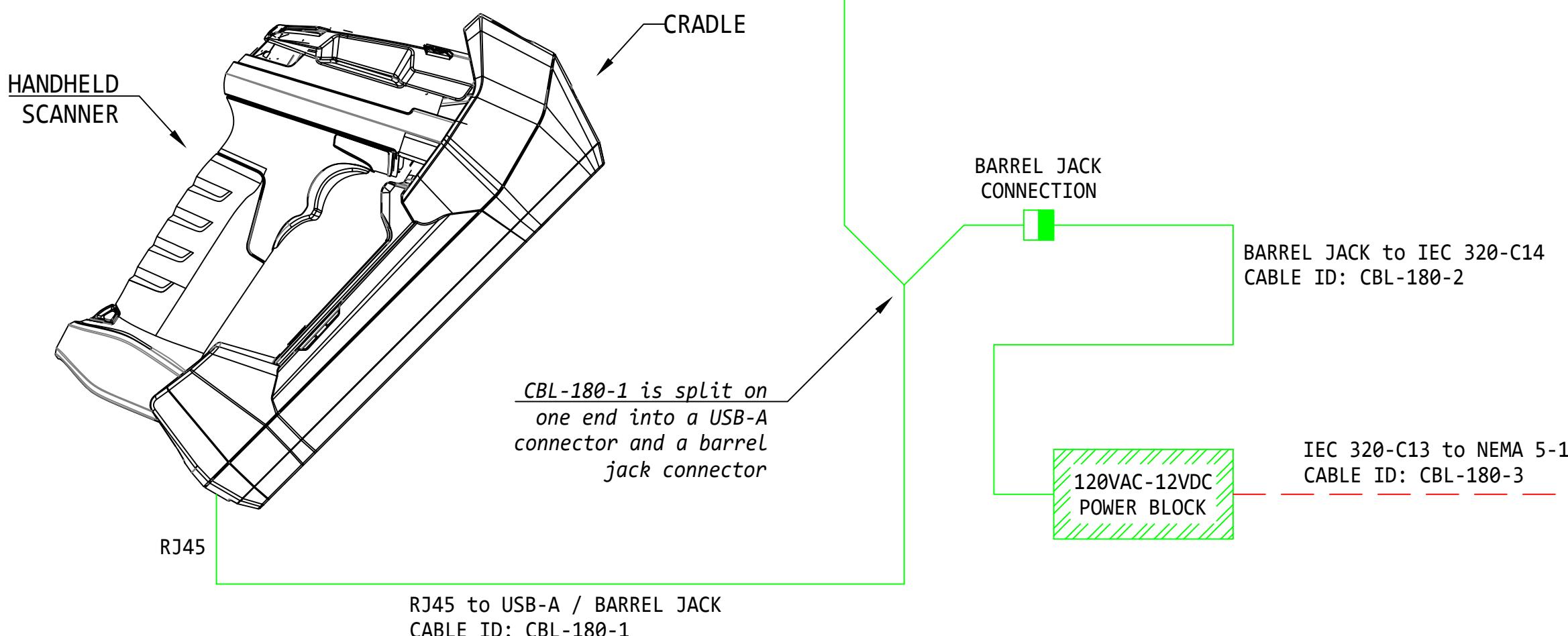
SKU: DS3678-SR3U4210SFW

**Includes:**

- Handheld scanner
- Cradle
- Power block (CBL-180-2)
- Line cord (CBL-180-3)

**Purchased separately:**

- USB cord (CBL-180-1)



J	2025-02-12	MPH	SEE INTERCONNECT RELEASE NOTES
H	2024-10-01	TFP	SEE INTERCONNECT RELEASE NOTES
G	2024-06-17	TFP	SEE INTERCONNECT RELEASE NOTES
REV	DATE	ENGR.	DESCRIPTION



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DATE 2025-02-07  
SCALE N/A  
DRAWN TFP  
APPROVED

SPS V2  
INTERCONNECT DRAWING PACKAGE  
OPTIONAL - SKU CONFIRMATION SCANNER WIRING

REV	SECT.	DETAIL	JOB#
	PREV.		BG 117746
J	SHEET	180	
	NEXT		DWG SPS-180