



CENTER OF TECHNOLOGICAL INITIATIVES, LLC

info@cti-sumy.com.ua

Custom-made machines for you



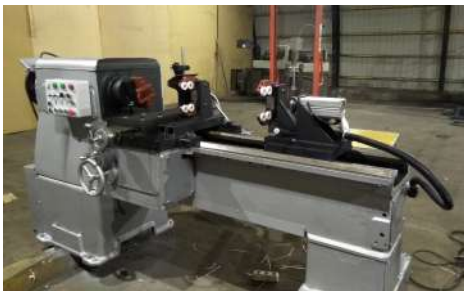
Welding machine



Welding machine



Welding machine



Semi-automatic welding machine

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 <https://www.youtube.com/channel/UCyYGmKVZ2FwZnoX4RV8ls0g>

This manual is brought to you by CTI LLC.

We have more than 10 years of experience in machine building and will gladly help you to increase productivity at your manufacturing facility!

Taking into account the peculiarities of your manufacture we can make a custom machine that will help you simplify the production process.

We offer to perform the whole range of works:



Designing



Production



Assembly

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FANUC WIRING DIAGRAM

1.0 WRG-0126

2.0 WRG-0127

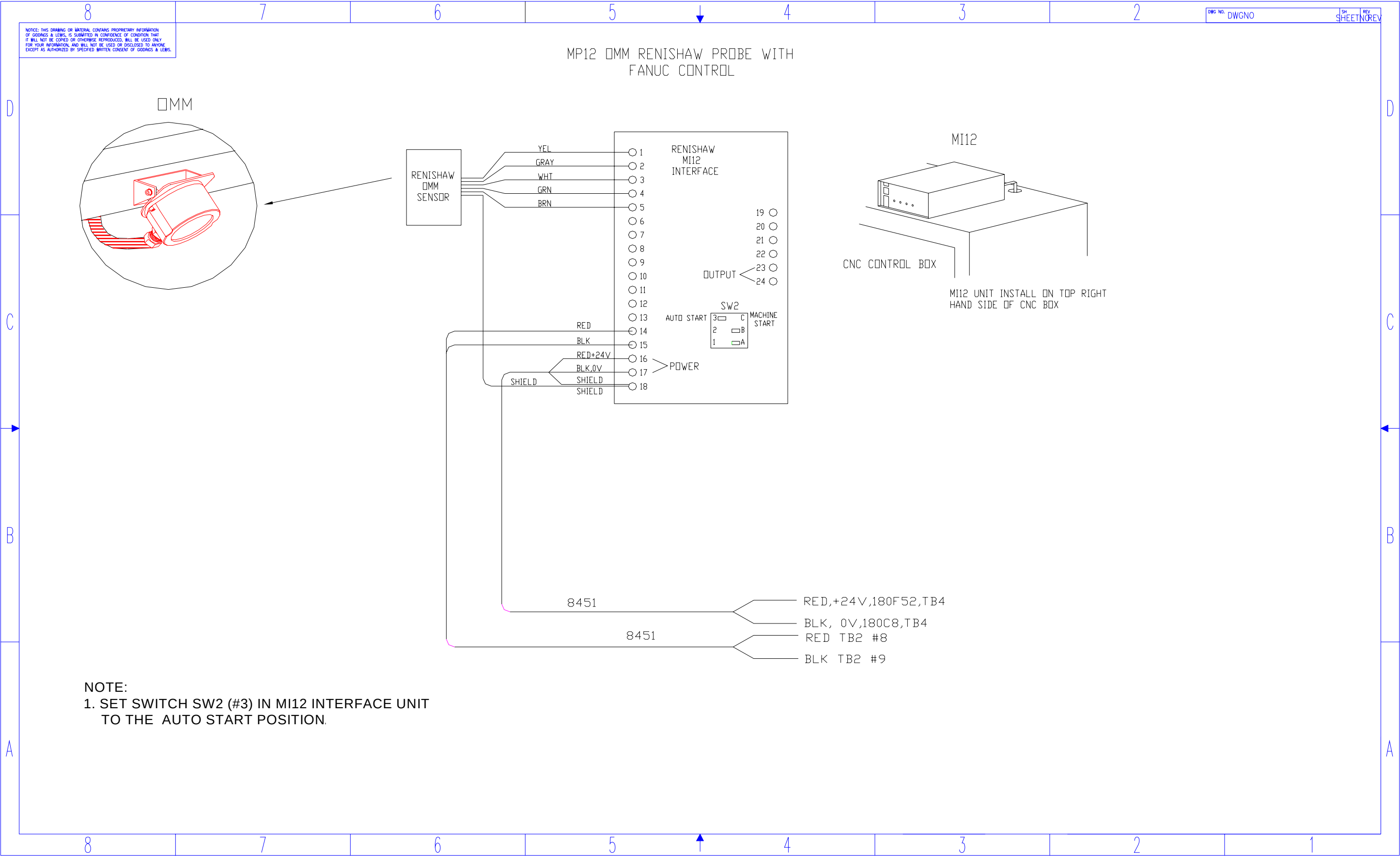
3.0 WRG-0133

4.0 WRG-0136

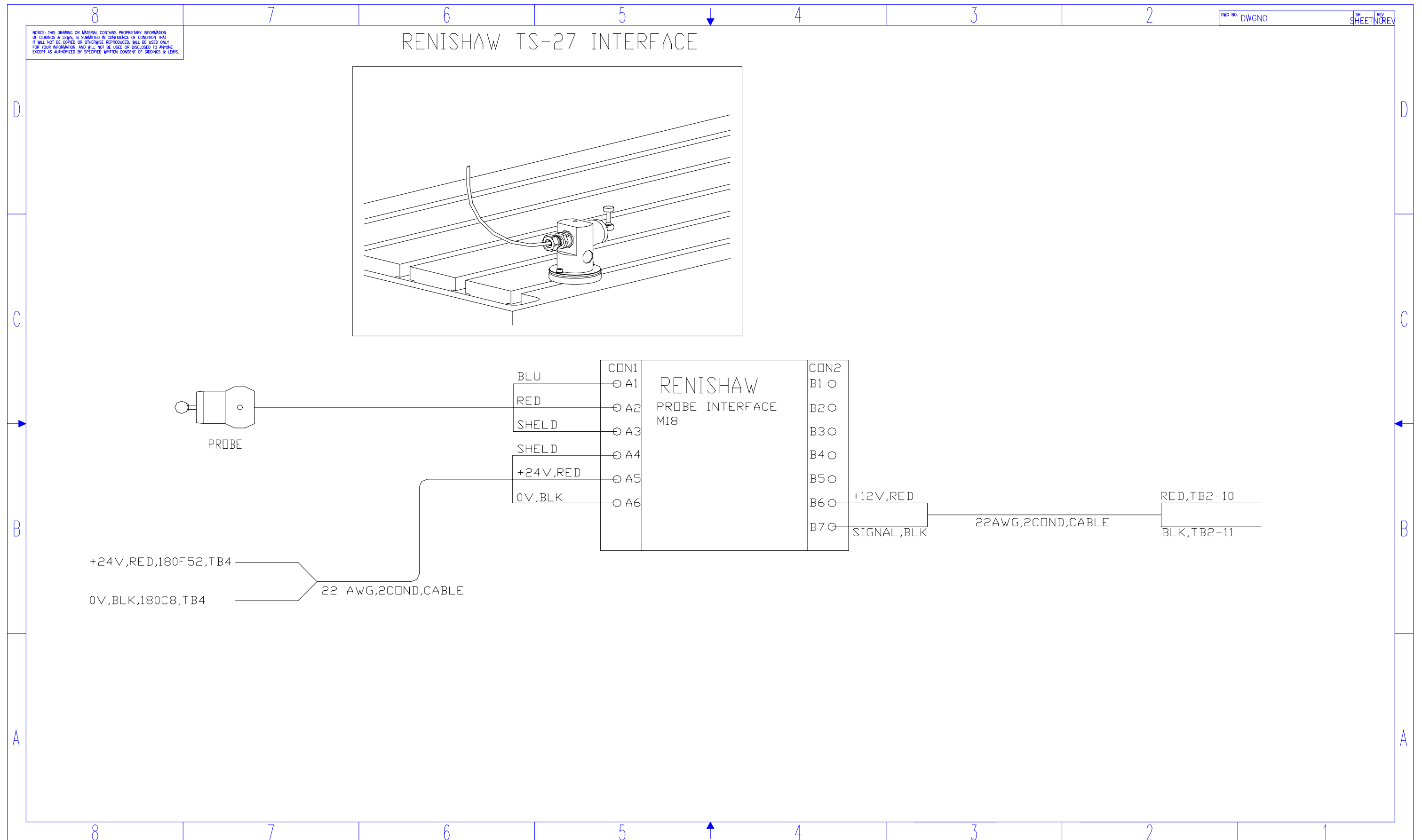
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1.1 MP12_OMM_FANUC_CNT



2.1 TS27_PROBE_FANUC

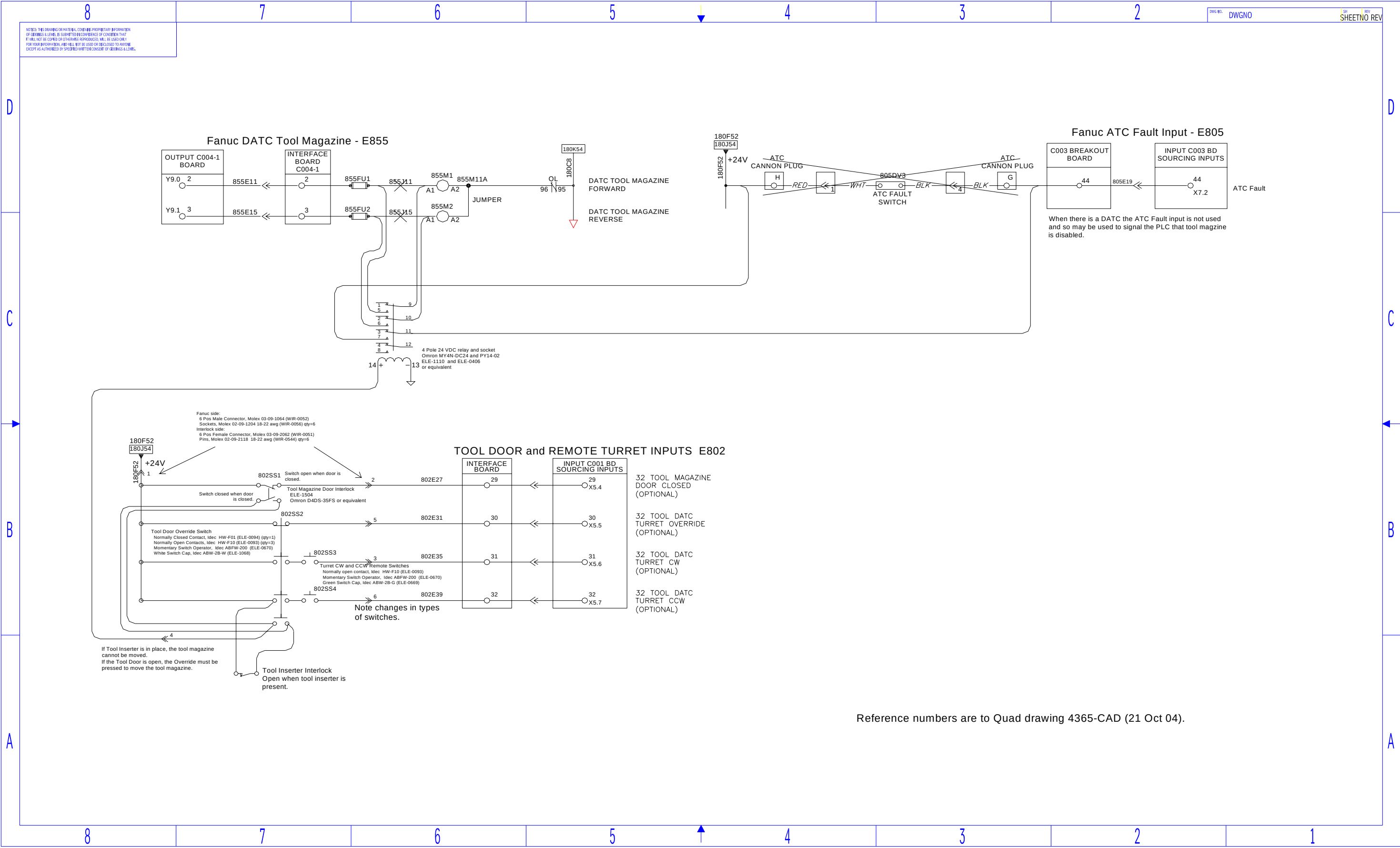


3.0 WRG-0133_D

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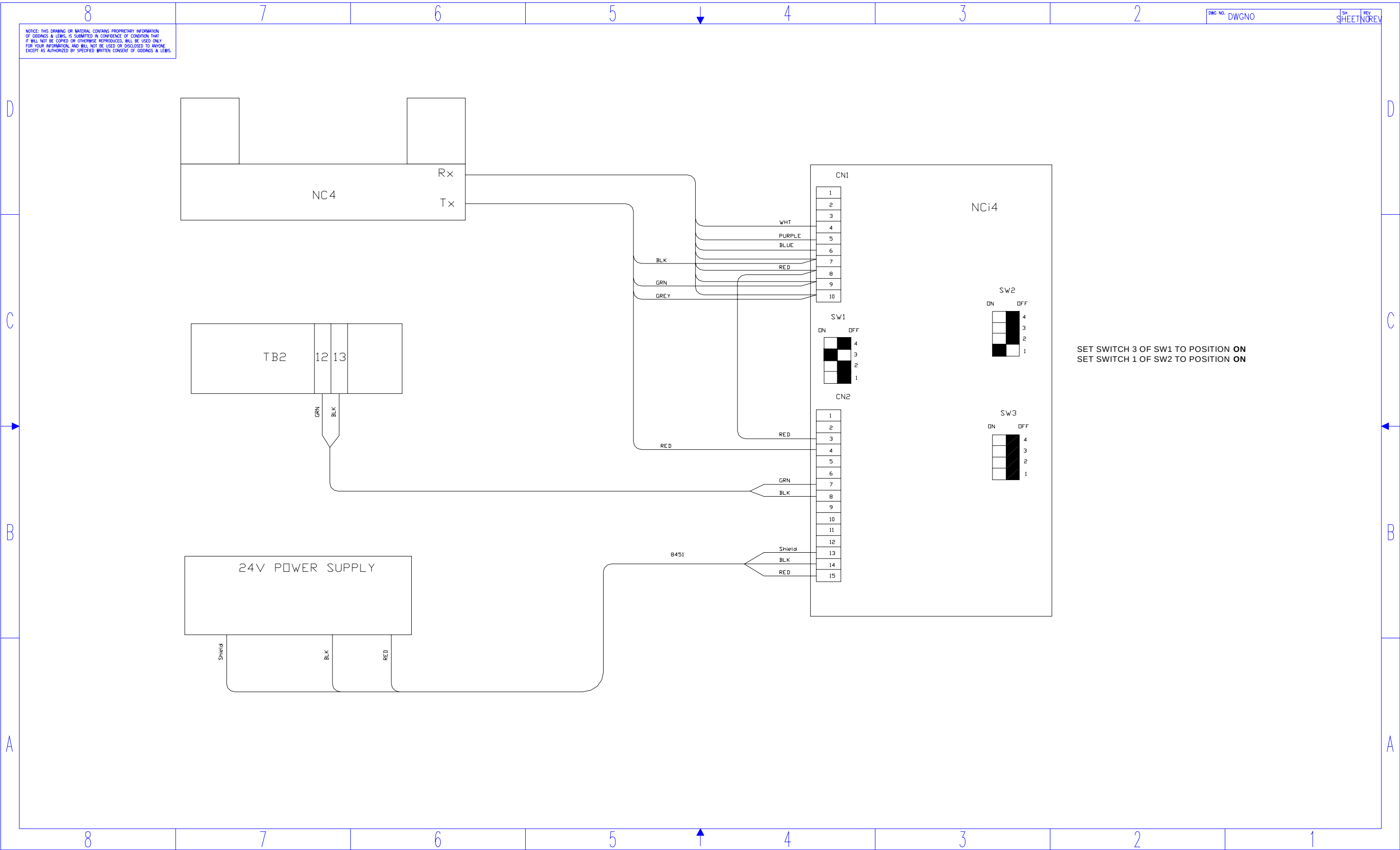


3.2 FANUC TOOL DOOR INTERLOCK VMC_SHT2



4.0 WRG-0136_A

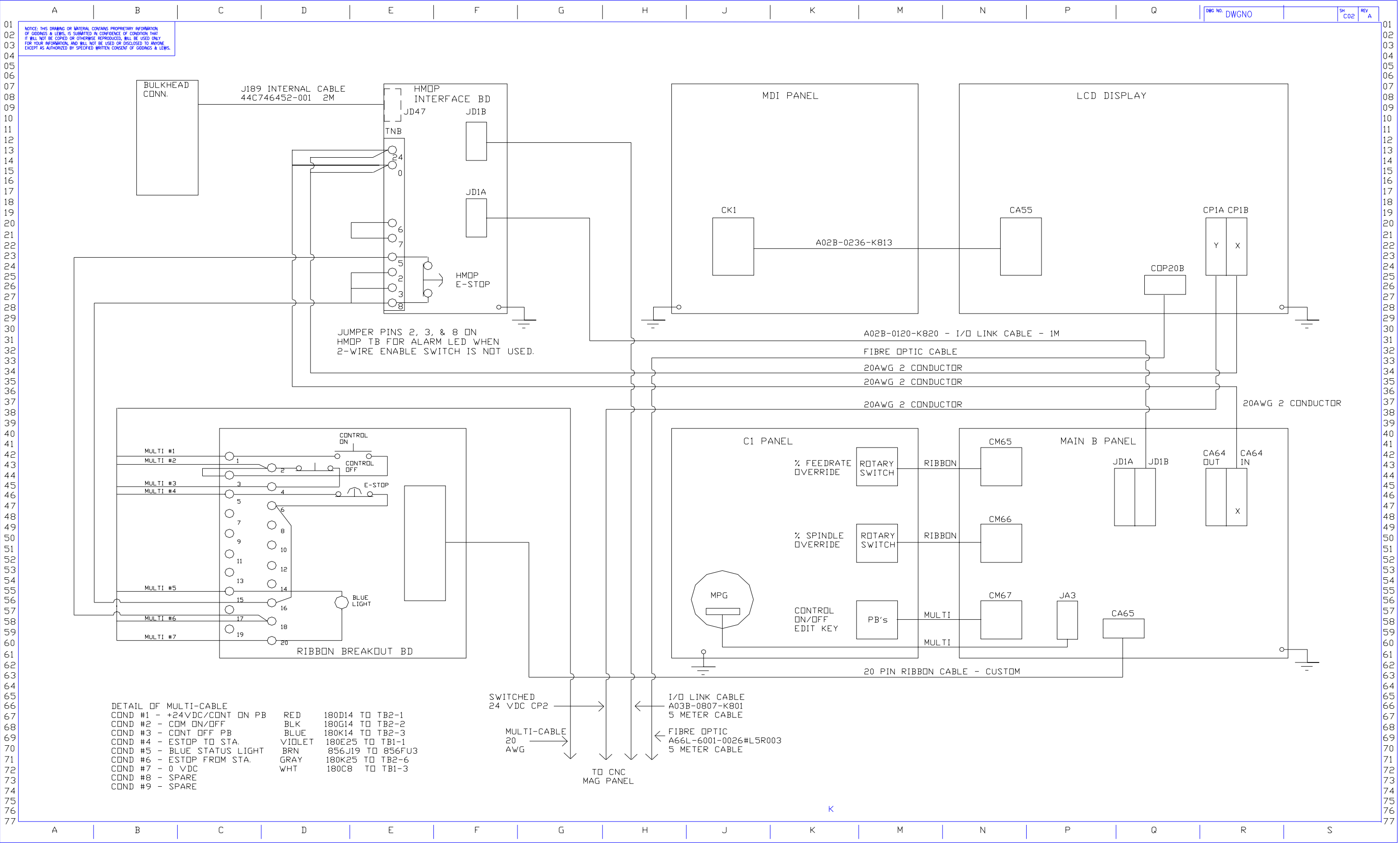
4.1 FANUC NC4 PROBE



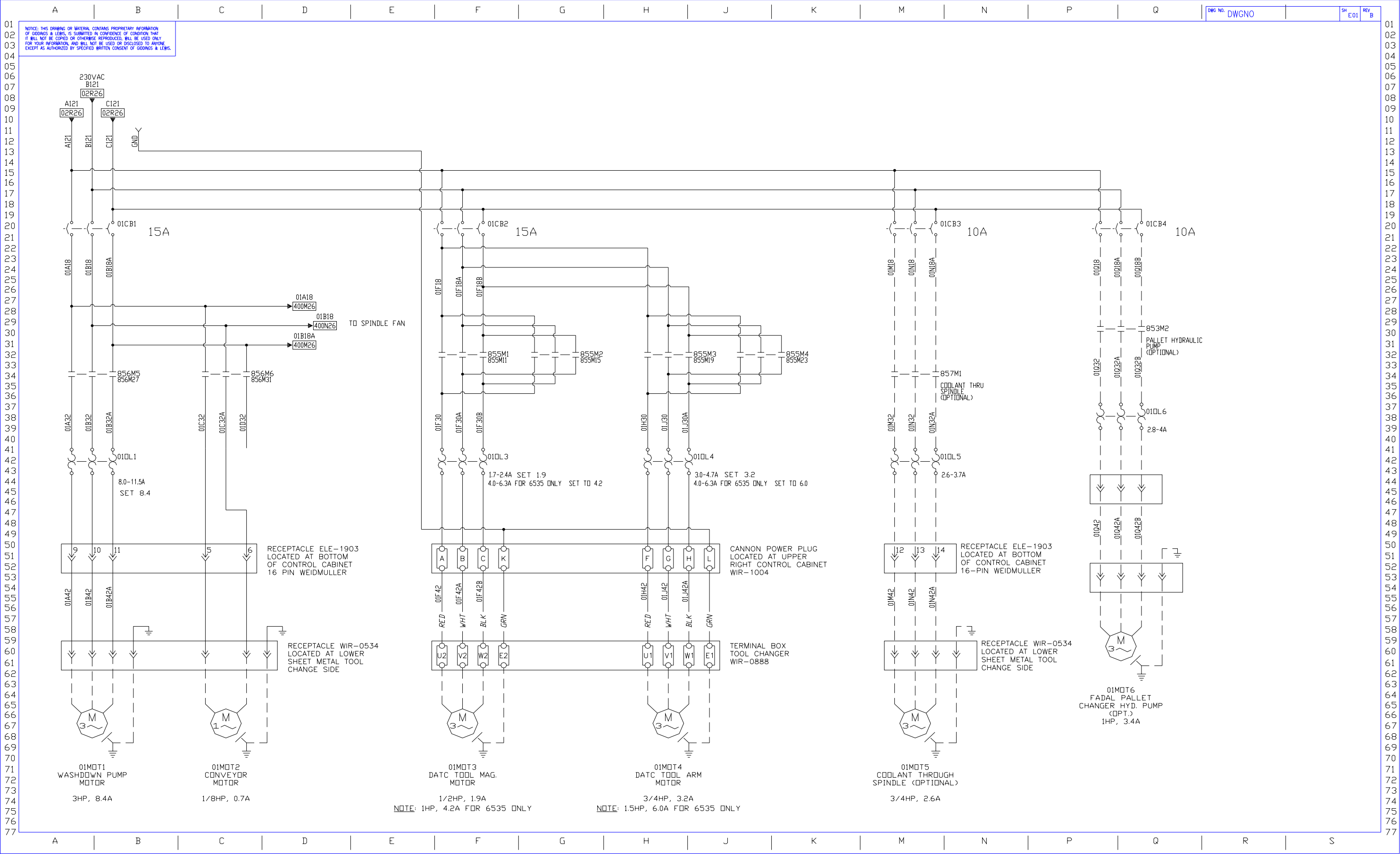
5.1 OR 01_DRAWING STANDARDS AND INDEX

A		B		C		D		E		F		G		H		J		K		M		N		P		Q		DWG NO. DWGNO		SH R01		REV A	
NOTICE: THIS DRAWING OR MATERIAL CONTAINS PROPRIETARY INFORMATION OF GEORNGS & LEWIS. IS SUBMITTED IN CONFIDENCE OF CONDITION THAT IT WILL NOT BE COPIED OR OTHERWISE REPRODUCED, WILL BE USED ONLY FOR YOUR INFORMATION, AND WILL NOT BE USED OR DISCLOSED TO ANYONE EXCEPT AS AUTHORIZED BY SPECIFIED WRITTEN CONSENT OF GEORNGS & LEWIS.																																	
DRAWING STANDARDS																																	
NOTES																DEVICE DESIGNATIONS																	
CxS(x) CONDUCTOR SHIELDED – 18 Ga. CxPS(x) PAIR INDIVIDUALLY SHIELDED – 18 Ga. CBHALLEN BRADLEY BLUE HOSE – 18 Ga. CFOFIBER OPTIC CABLE N"#"DENOTES REFER TO NOTE "N" LISTED ON SAME SHEET i.e.: N2 "REFER TO NOTE 2"																X/A XXx/BX/CX/D A – (OPTIONAL) LOCATION CABINET NUMBER/LETTER B – SHEET NUMBER C – DEVICE FAMILY DESCRIPTION (ABBREVIATION) D – SEQUENTIAL DEVICE NUMBER																	
FIELD INSTALLATION & WIRING																WIRE NUMBERING																	
TO REDUCE THE POSSIBILITY OF ELECTRICAL NOISE INTERFERING WITH THE PROPER OPERATION OF THE CONTROL SYSTEM, FIELD WIRING MUST CONFORM TO THE FOLLOWING POWER SEPARATION RULES: FIELD WIRING AND INSTALLATION INDICATED ON THE DRAWINGS BY THE FOLLOWING:																XXx/AX/BX/CX A – SHEET NUMBER B – HORIZONTAL GRID LOCATION (LETTER) C – SEQUENTIAL OR VERTICAL GRID LOCATION (NUMBER)																	
1LOW LEVEL SIGNAL WIRE * ANALOG SIGNALS LESS THAN 50V * DIGITAL SIGNALS LESS THAN 15V * FIBER–OPTIC SIGNAL CABLES																REFERENCES (IN BRACKETS)																	
2MEDIUM LEVEL SIGNAL WIRE * ANALOG SIGNALS GREATER THAN 50V * SWITCHING SIGNALS GREATER THAN 15V																XXx/AX/BX/CX A – SHEET NUMBER B – HORIZONTAL GRID LOCATION (LETTER) C – (OPTIONAL) VERTICAL GRID LOCATION (NUMBER)																	
3NON–SIGNAL WIRE (300V/20A MAX) * SWITCHING SIGNALS GREATER THAN 50V * ANALOG SIGNALS GREATER THAN 50V * REGULATING SIGNALS OF 50V WITH CURRENTS LESS THAN 20A * AC FEED 20A OR LESS																SHEET NUMBER DESIGNATIONS																	
4ALL OTHER POWER WIRE * AC/DC BUSES UP TO 1000V WITH CURRENTS UP TO 800A * CLASS 4S FOR POWER GREATER THAN 1000V AND/OR 800A * LEVELS MUST BE RUN IN SEPARATE CONDUIT/TRAYS, NO INTERMIXING OF LEVELS IS PERMITTED																X/AX/XXx/B A = R – REFERENCE SHEET S – SYSTEM OVERVIEW C – COMMUNICATIONS OVERVIEW/CONTROL SINGLE LINE D – DISTRIBUTION SINGLE LINE E – ELECTRICAL SCHEMATICS M – MECHANICAL DRAWINGS B = SEQUENTIAL DRAWING NUMBER																	
GGROUNDING CONDUCTOR																																	
DRAWING INDEX																																	
R01DRAWING STANDARDS AND INDEX																																	
C02OPERATOR STATIONS COMMUNICATION 1 LINE OVERVIEW																																	
E01230VAC POWER DISTRIBUTION																																	
E02FADAL SUPPLIED TRANSFORMER DETAIL																																	
E170115VAC POWER DISTRIBUTION																																	
E171115VAC POWER DISTRIBUTION																																	
E172115VAC POWER DISTRIBUTION																																	
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E18024VDC POWER DISTRIBUTION																																	
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E350DRIVES CNC CONTROL WIRING DETAIL																																	
E400SPINDLE AMP DRIVE WIRING DETAIL																																	
E450SERVO AMP DRIVE WIRING DETAIL FOR X, Y, Z, AXIS MOTORS																																	
E600OPTIONAL SERVO AMP DRIVE WIRING DETAIL FOR A & B AXIS MOTORS																																	
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E804C001 BOARD JUMPER SETUP DETAIL																																	
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E806INPUT CARD FOR C003 BOARD																																	
E807INPUT CARD FOR C003 BOARD																																	
E808C003 BOARD JUMPER SETUP DETAIL																																	
E809C004 BOARD JUMPER SETUP DETAIL																																	
E810C004 BOARD JUMPER SETUP DETAIL																																	
E850OUTPUT CARD FOR C001 BOARD																																	
E851OUTPUT CARD FOR C001 BOARD																																	
E852OUTPUT CARD FOR C003 BOARD																																	
E853OUTPUT CARD FOR C003 BOARD																																	
E854OUTPUT CARD FOR C004–1 BOARD																																	
E855OUTPUT CARD FOR C004–1 BOARD																																	
E856OUTPUT CARD FOR C004–2 BOARD																																	
E857OUTPUT CARD FOR C004–2 BOARD																																	
M200MAG PANEL LAYOUT																																	
M201REAR PANEL LAYOUT																																	
M202RIGHT SIDE PANEL LAYOUT																																	
M205ENCLOSURE PANEL LOCATION DETAILS																																	
M210MAG PANEL FABRICATION DETAIL																																	
M211REAR CONTROL PANEL FABRICATION DETAIL																																	
M212RIGHT SIDE PANEL FABRICATION DETAIL																																	

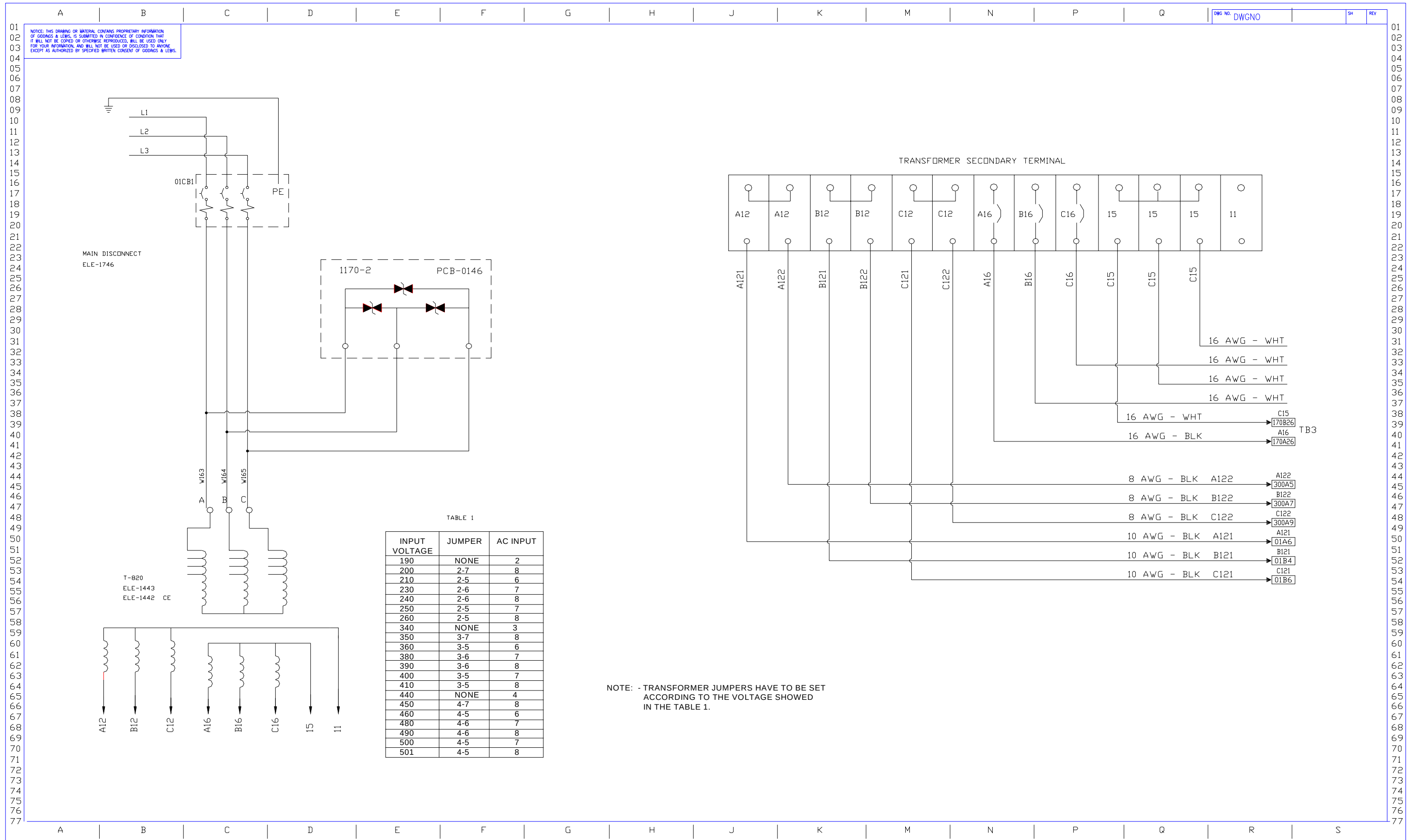
5.2 C02_OPERATOR STATIONS COMMUNICATION 1 LINE OVERVIEW



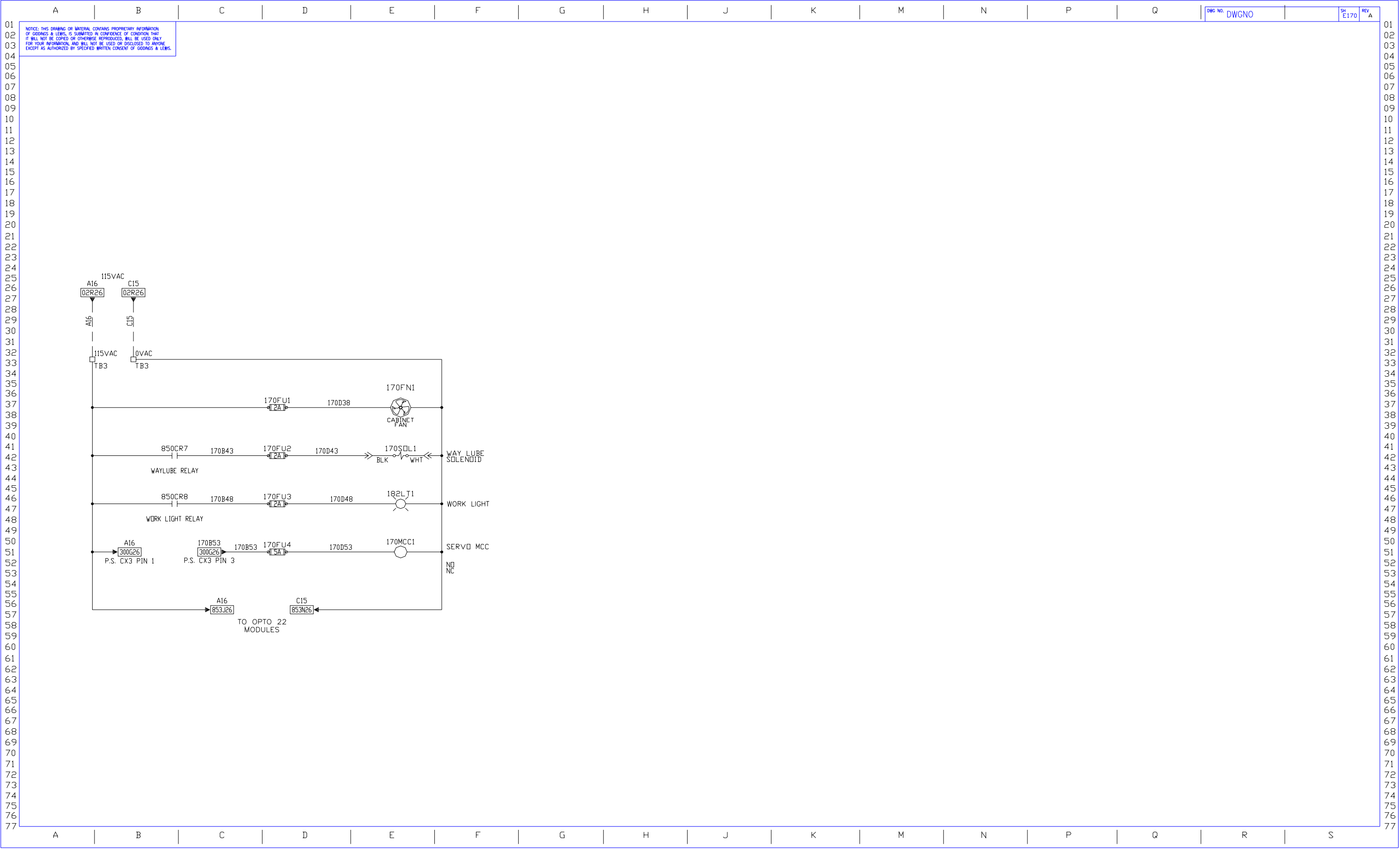
5.3 E01_230VAC POWER DISTRIBUTION



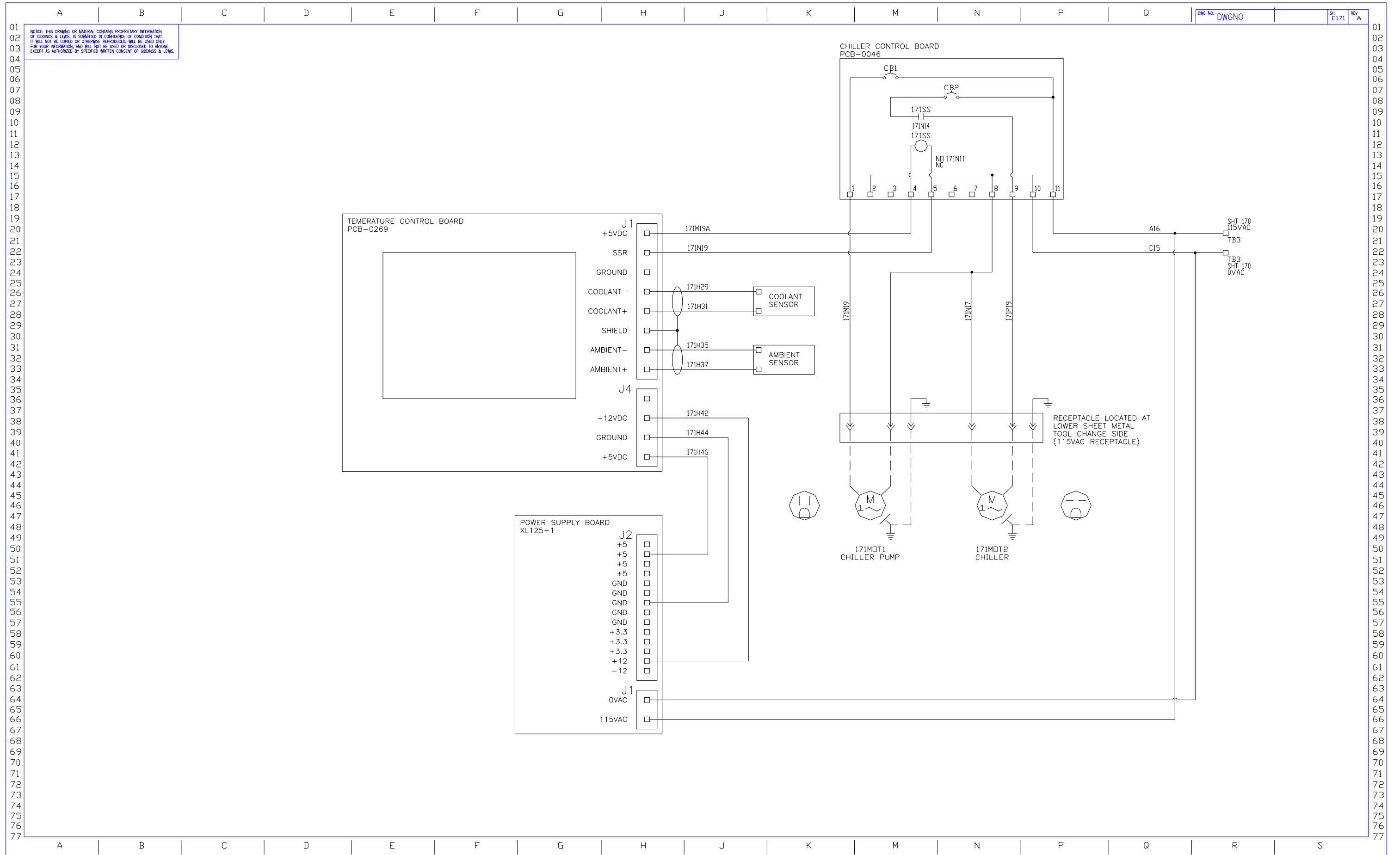
5.4 E02_FADAL SUPPLIED TRANSFORMER DETAIL



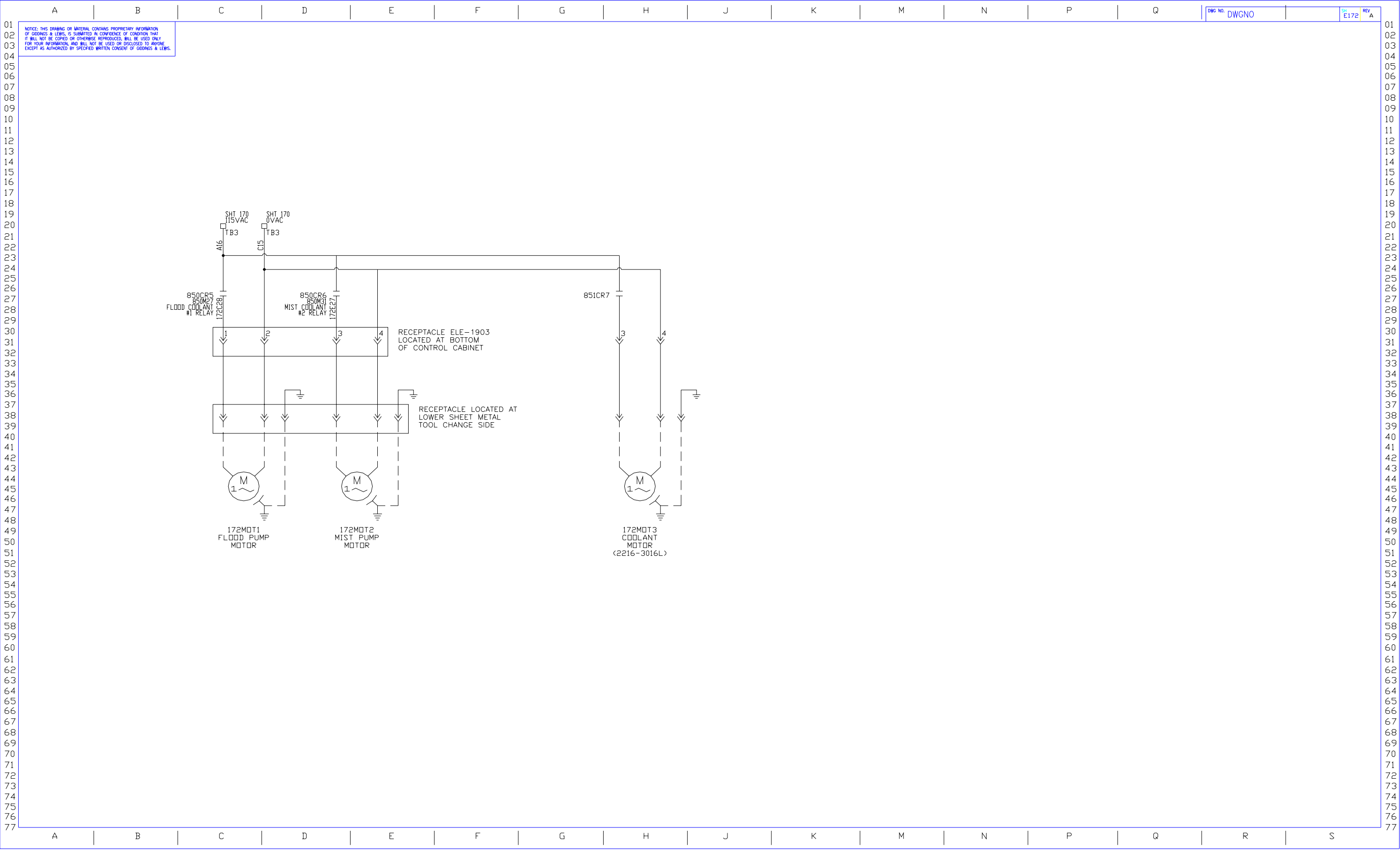
5.5 E170_115VAC POWER DISTRIBUTION_SHT1



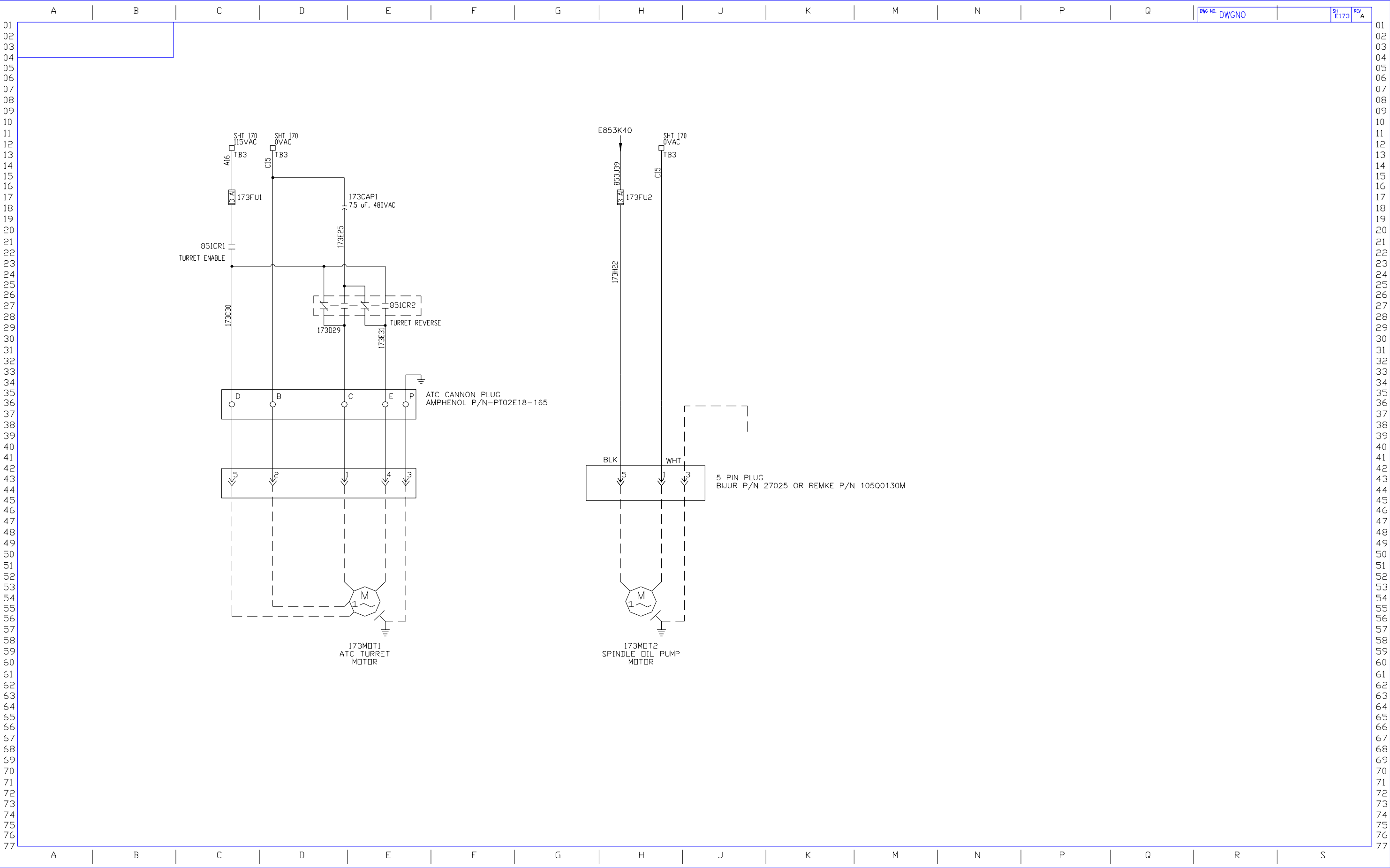
5.6 E171_115VAC POWER DISTRIBUTION_SHT2



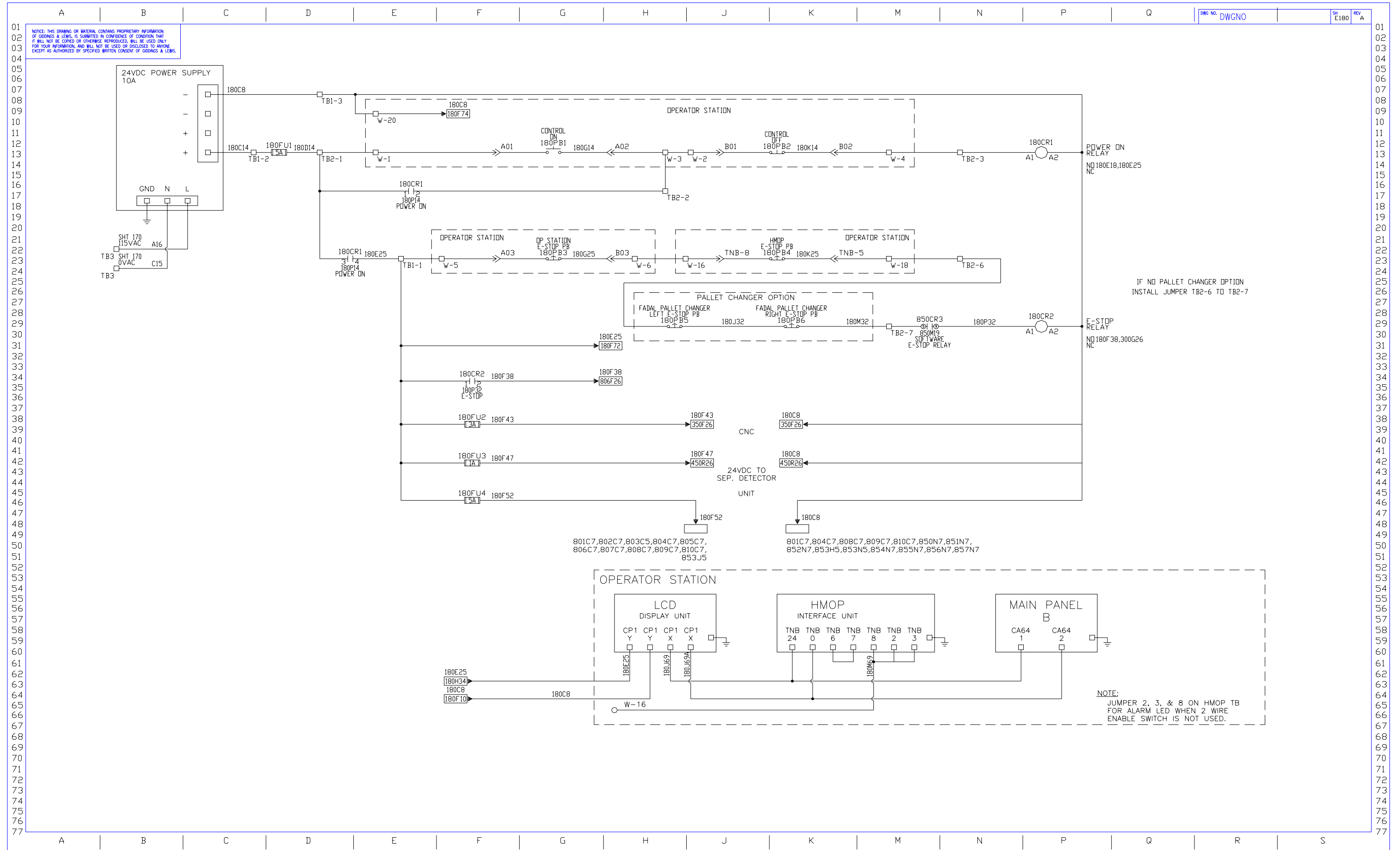
5.7 E172_115VAC POWER DISTRIBUTION_SHT3



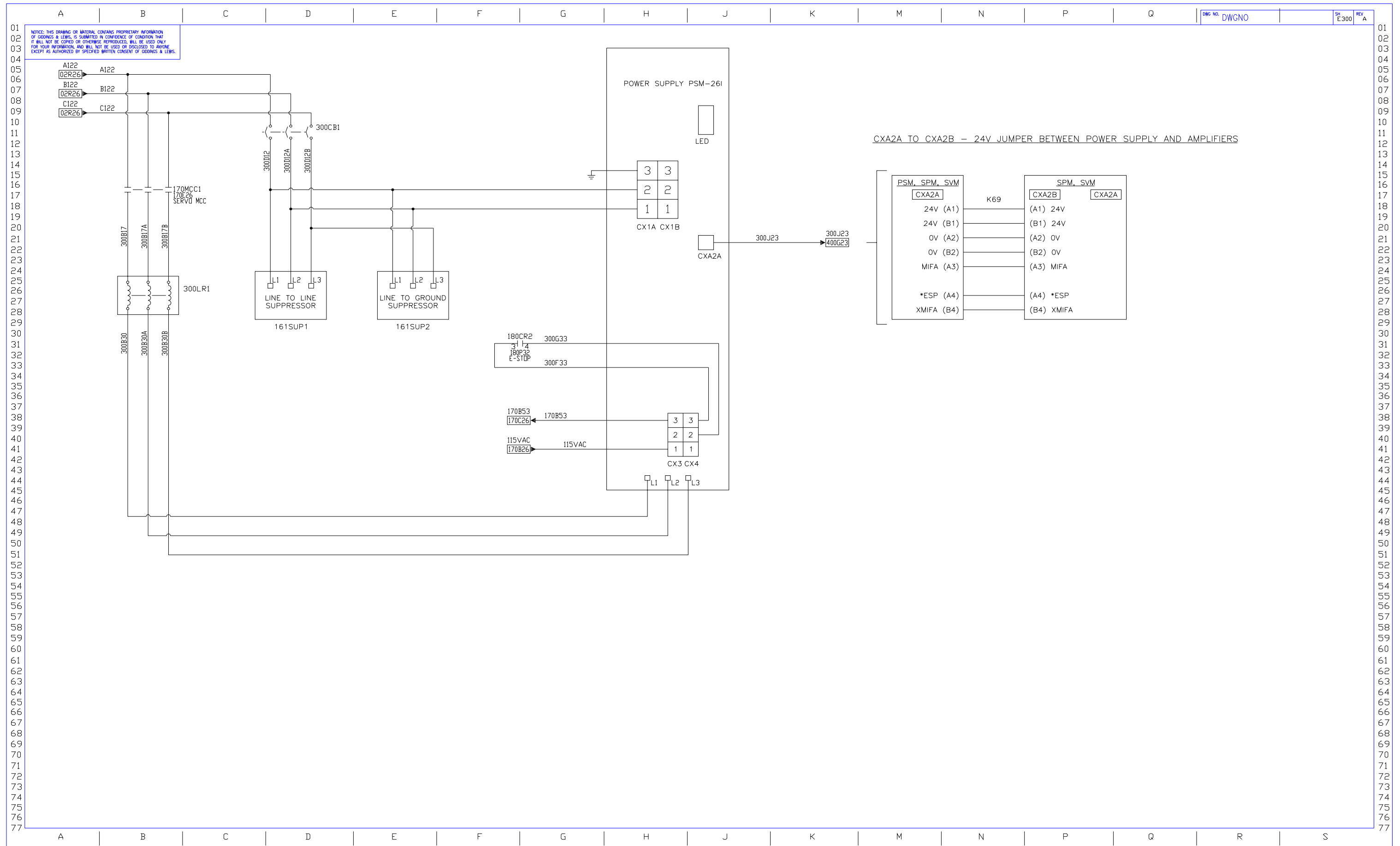
5.8 E173_115VAC POWER DISTRIBUTION_SHT4



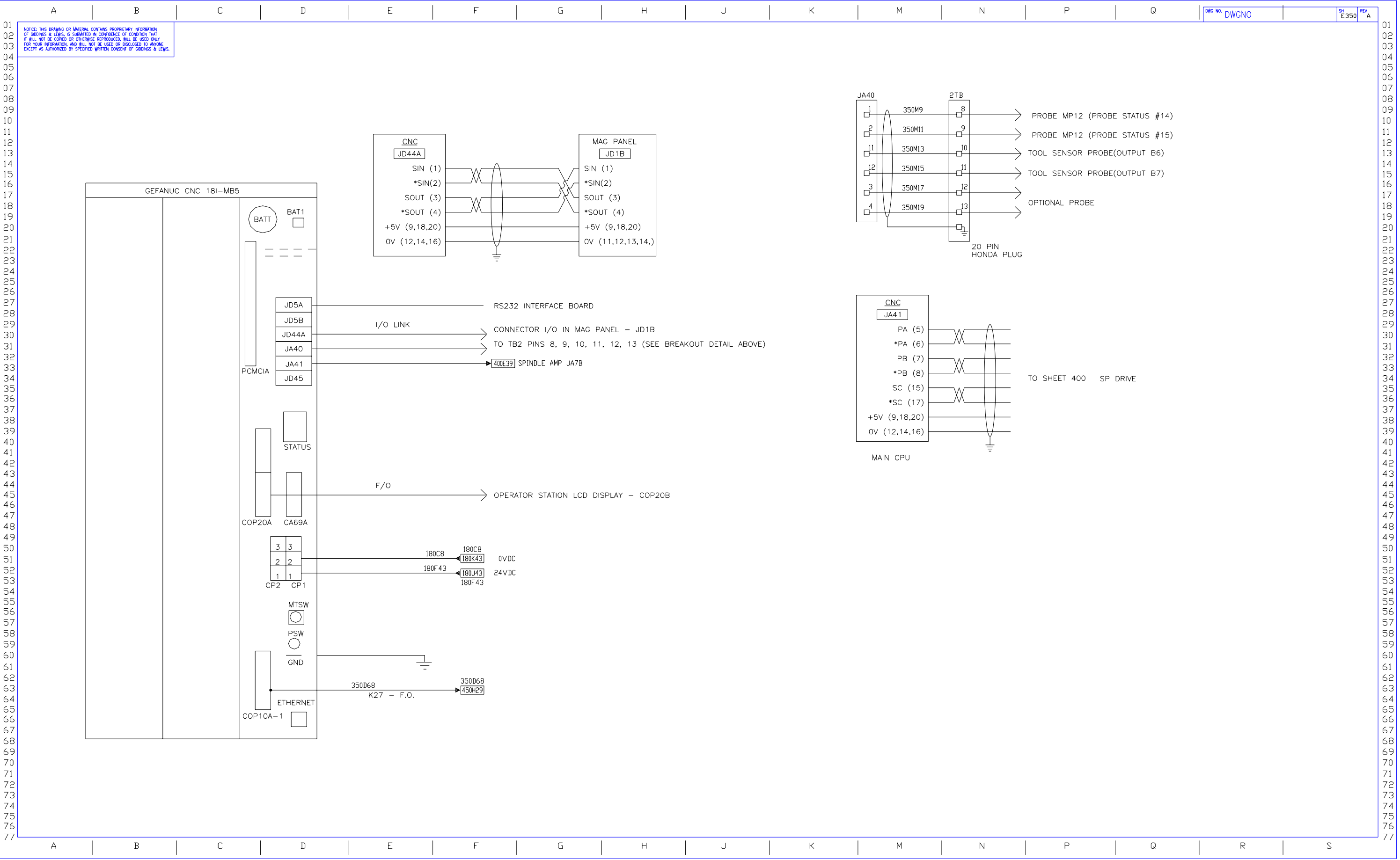
5.9 E180_24VDC POWER DISTRIBUTION



5.10 E300_DRIVES POWER SUPPLY WIRING DETAIL



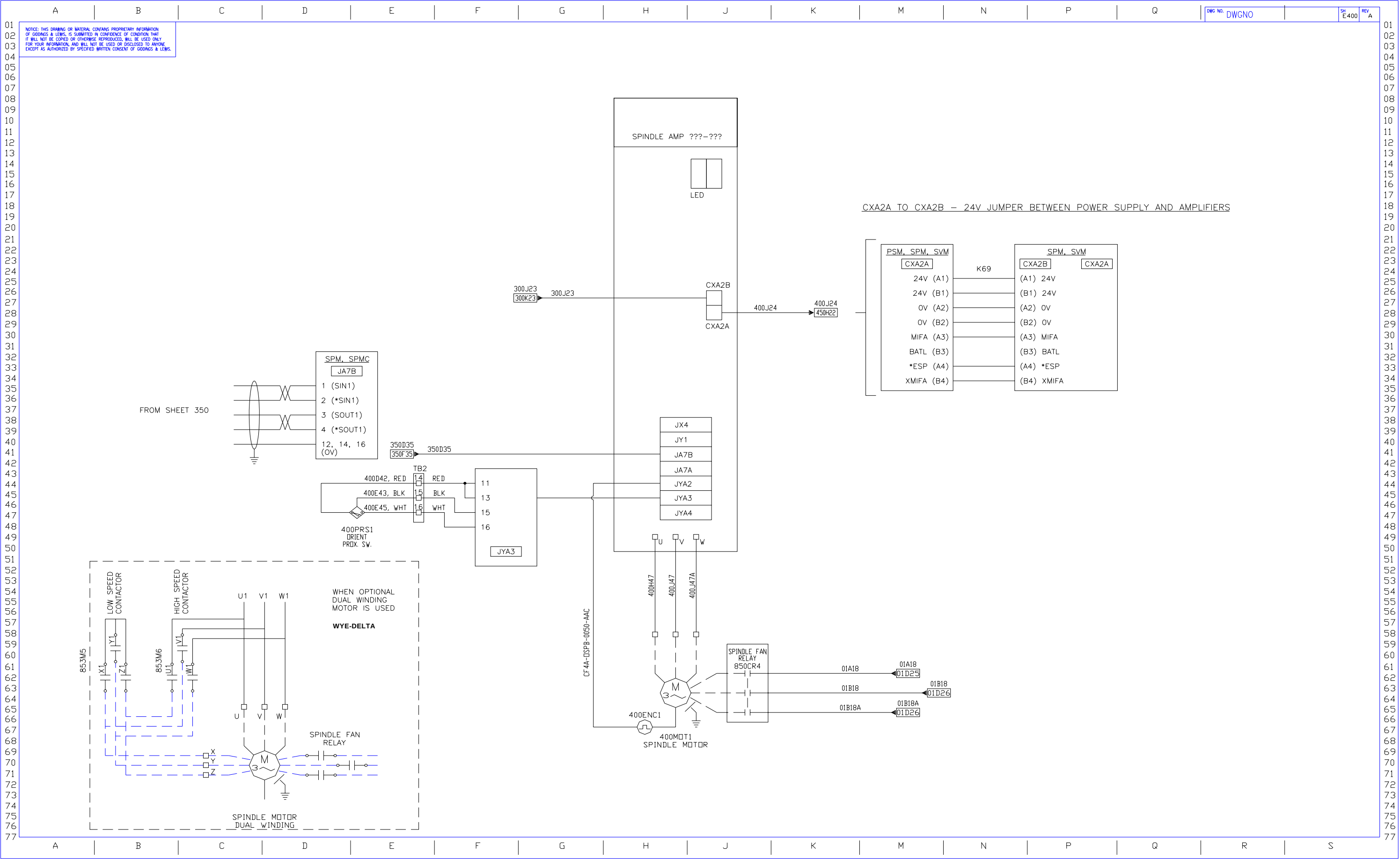
5.11 E350_DRIVES CNC CONTROL WIRING DETAIL



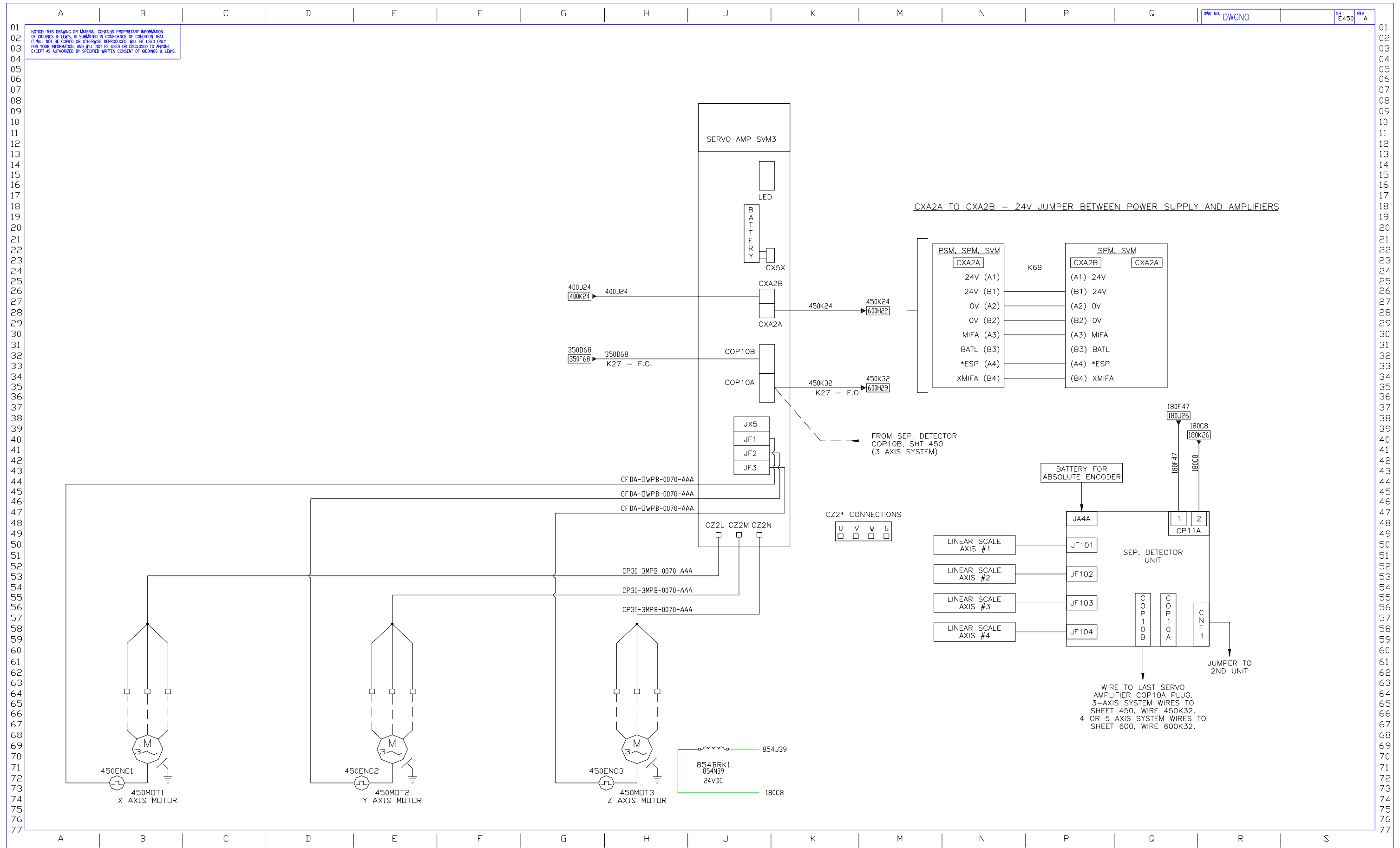
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A B C D E F G H J K M N P Q R S

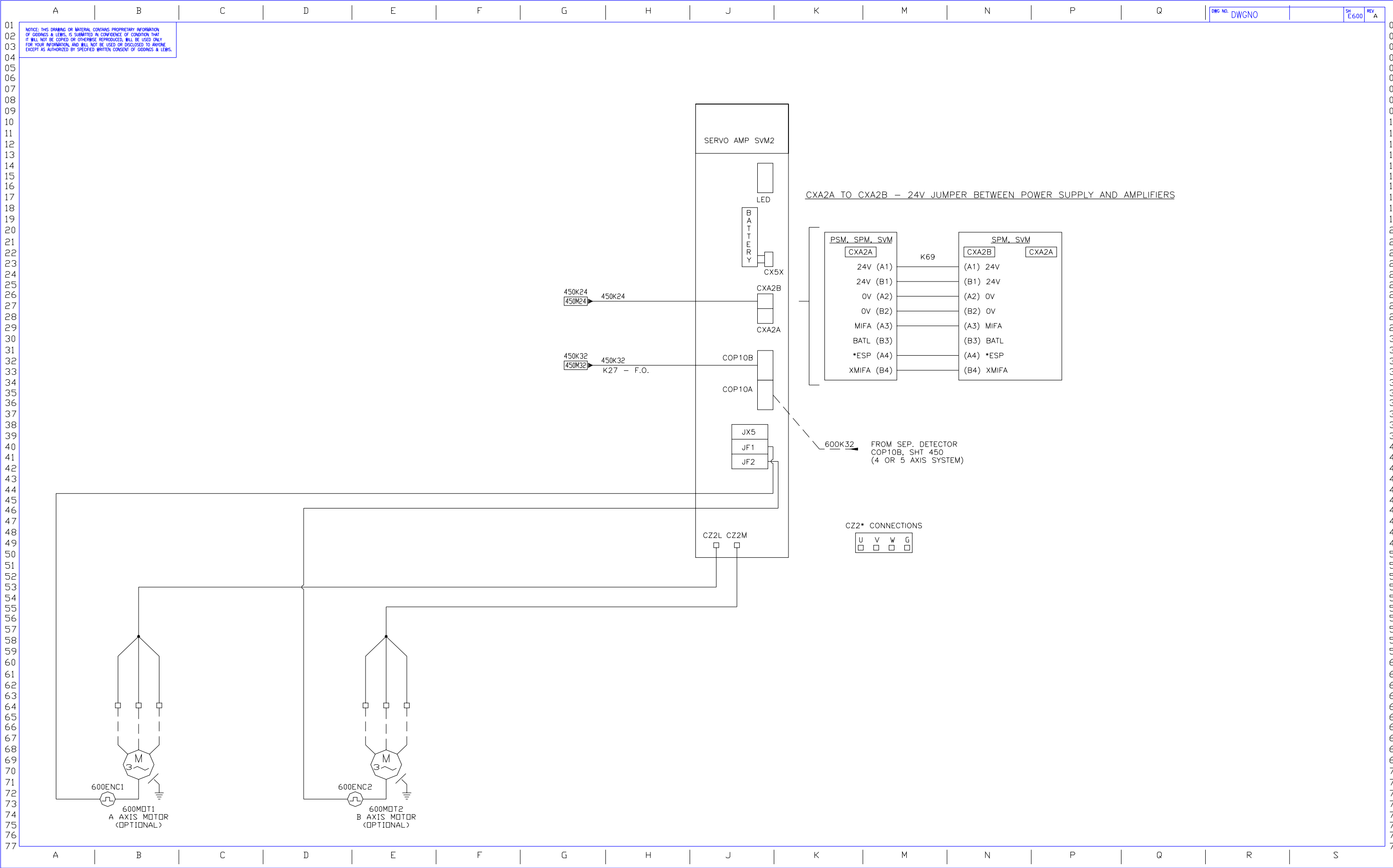
5.12 E400_SPINDLE AMP DRIVE WIRING DETAIL



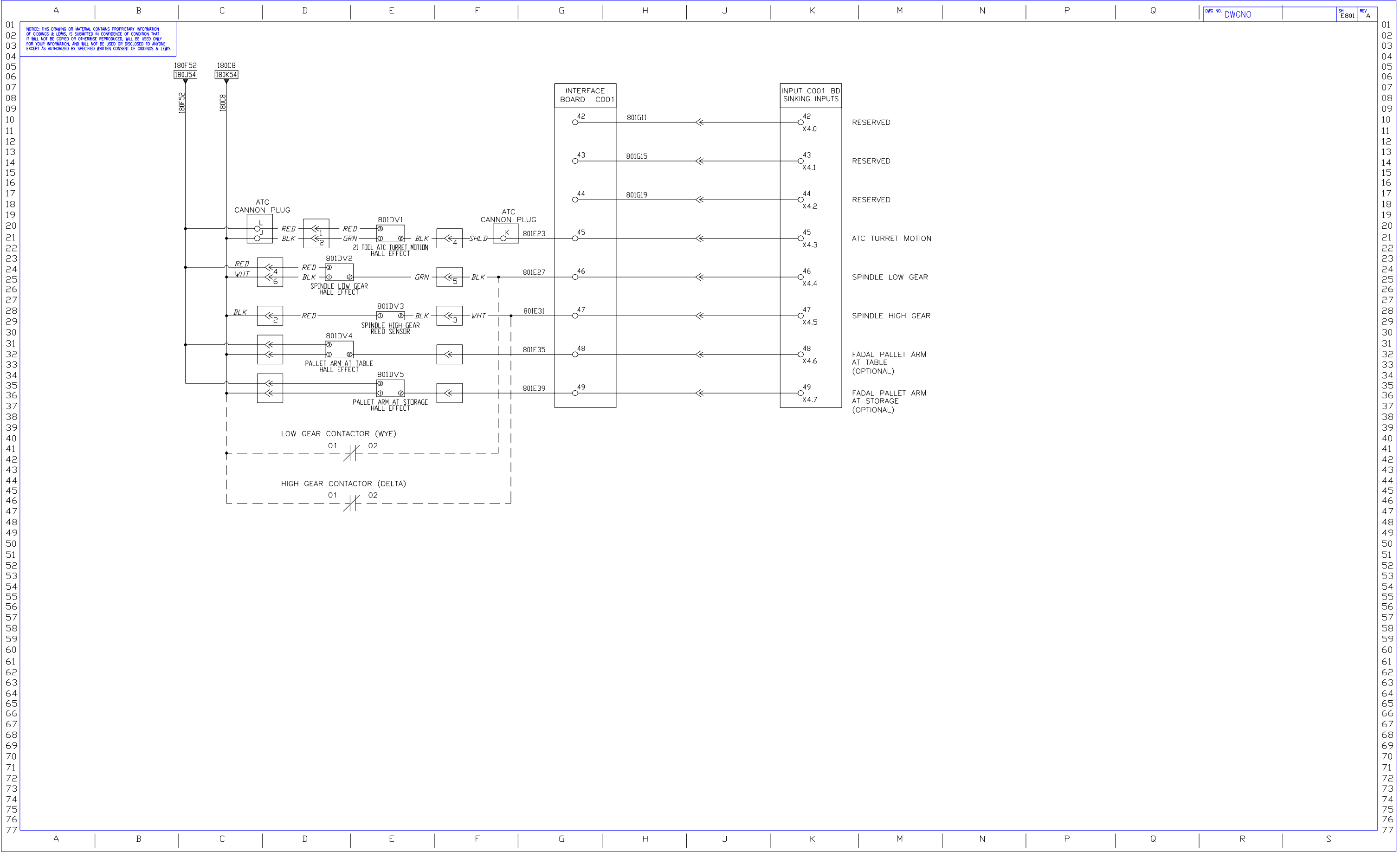
5.13 E450 SERVO AMP DRIVE WIRING DETAIL FOR X, Y, Z AXIS



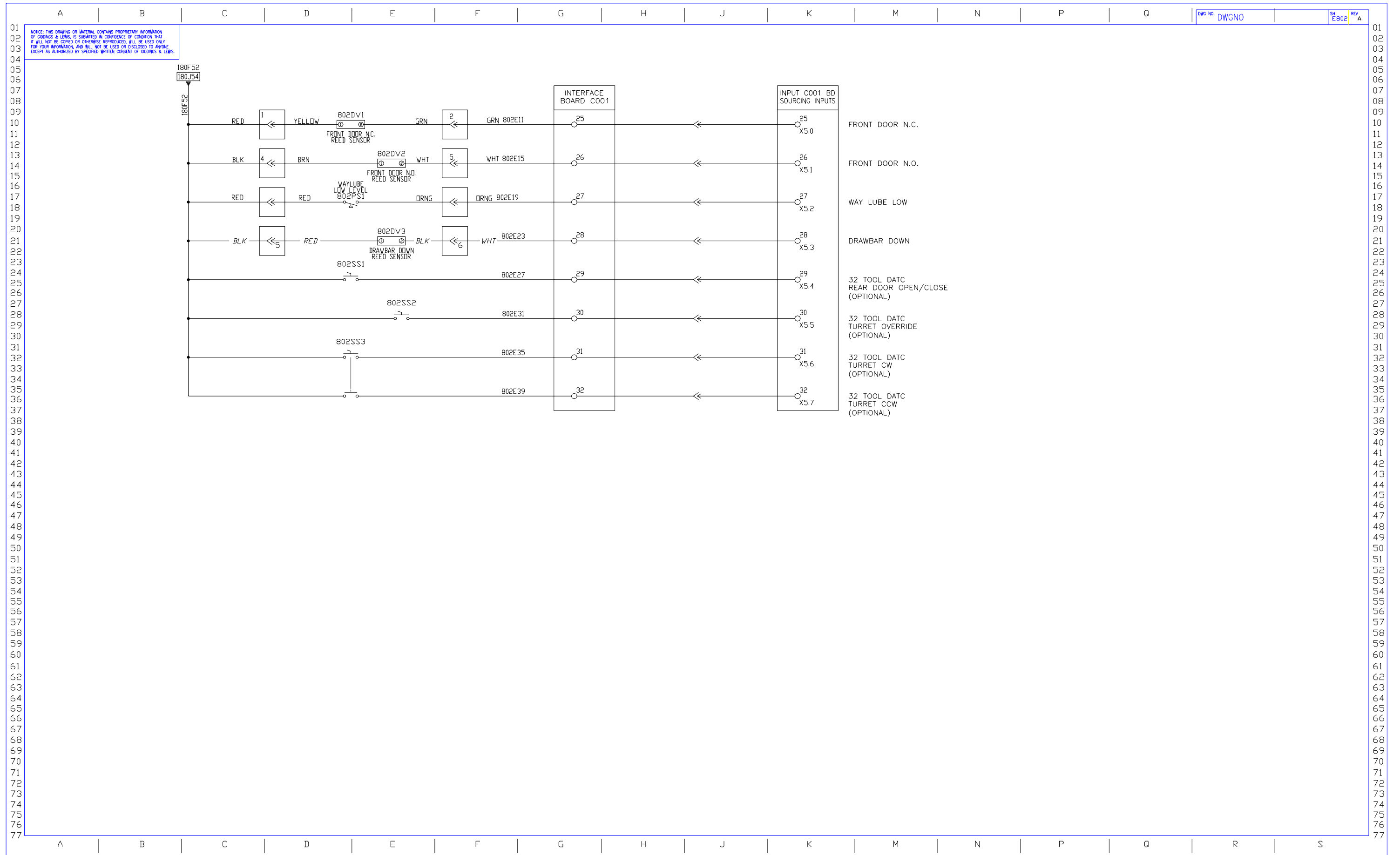
5.14 E600_OPTIONAL SERVO AMP DRIVE WIRING DETAIL FOR A & B AXIS MOTORS



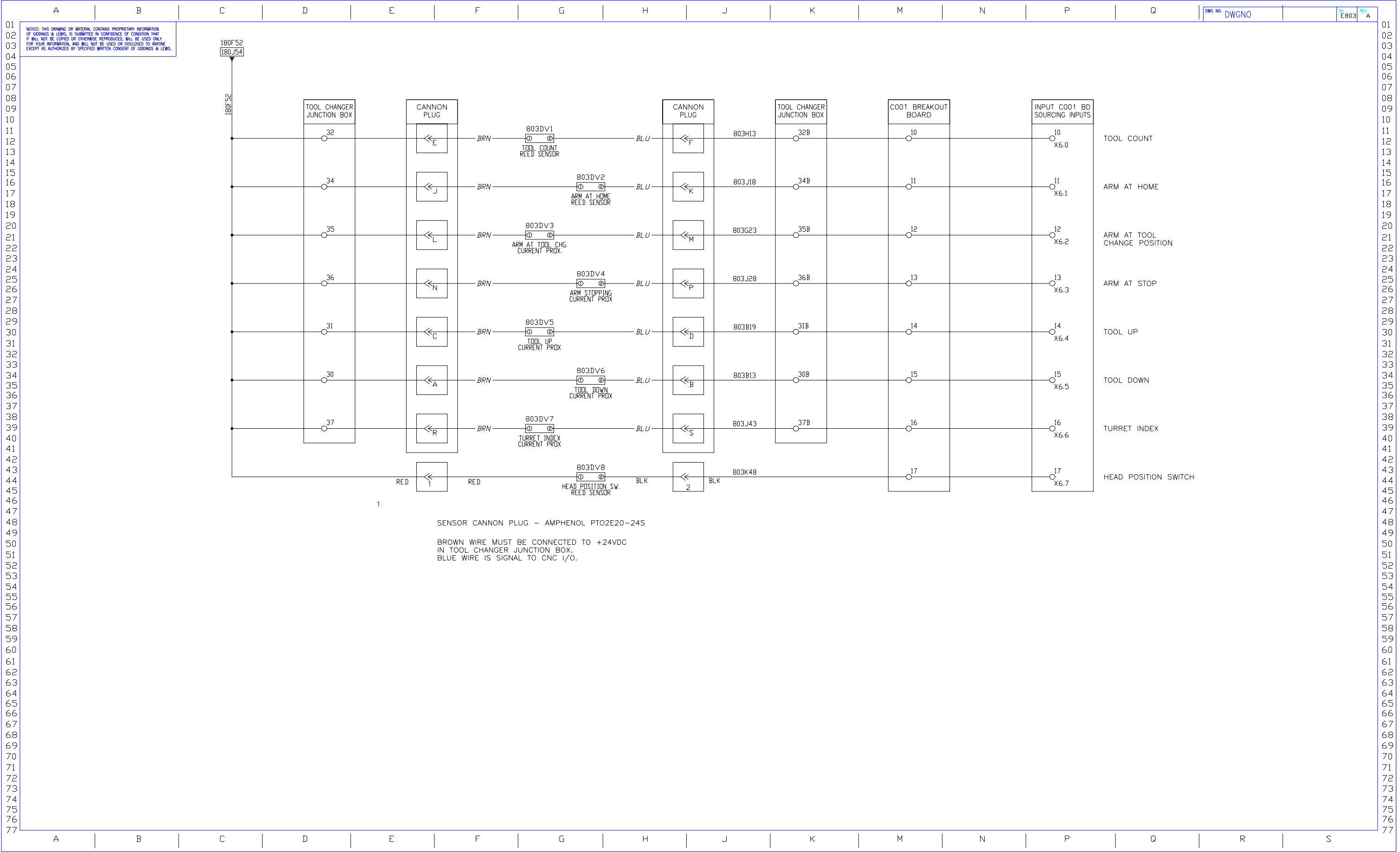
5.15 E801_INPUT CARD FOR C001 BOARD_SHT1



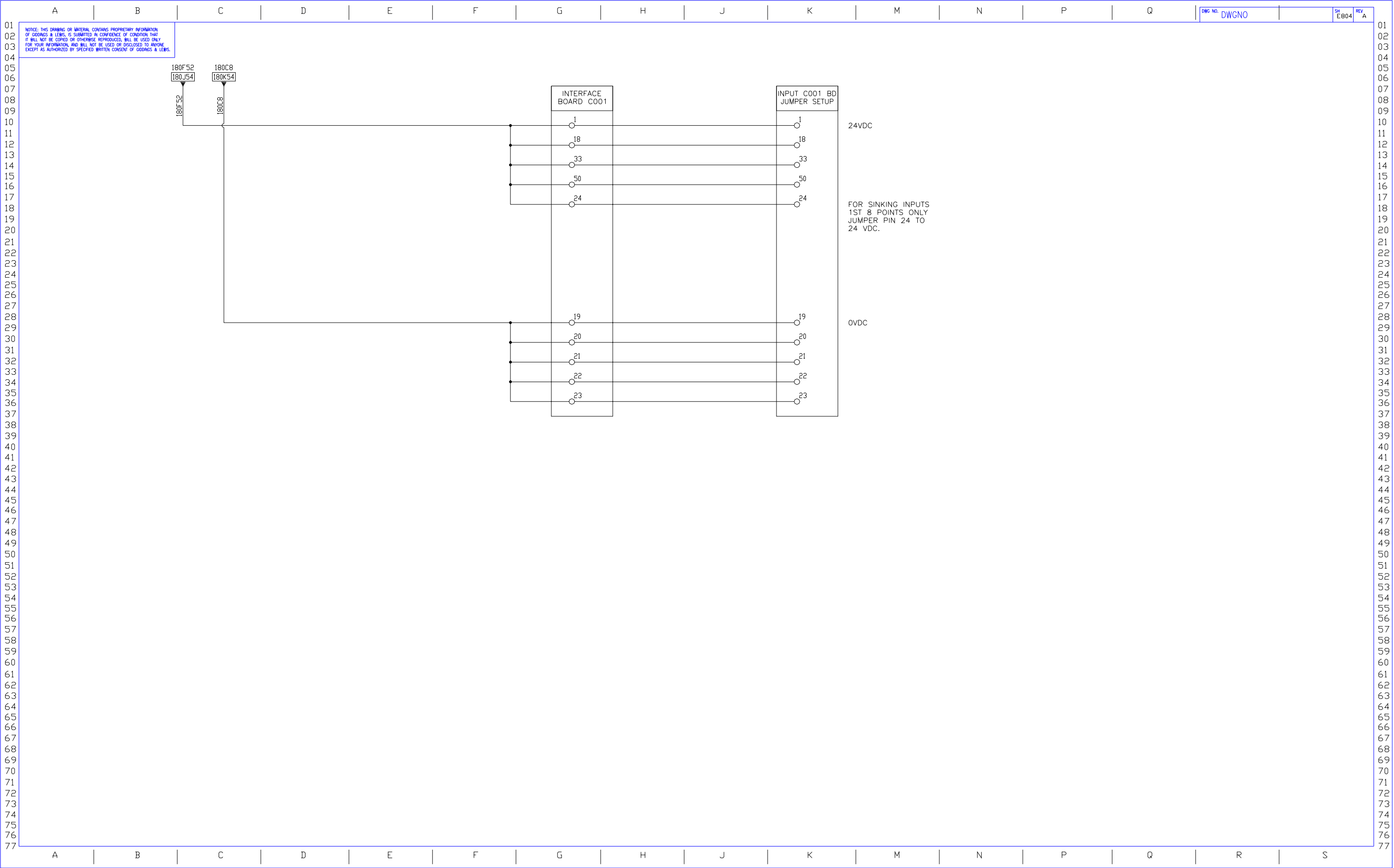
5.16 E802_INPUT CARD FOR C001 BOARD_SHT2



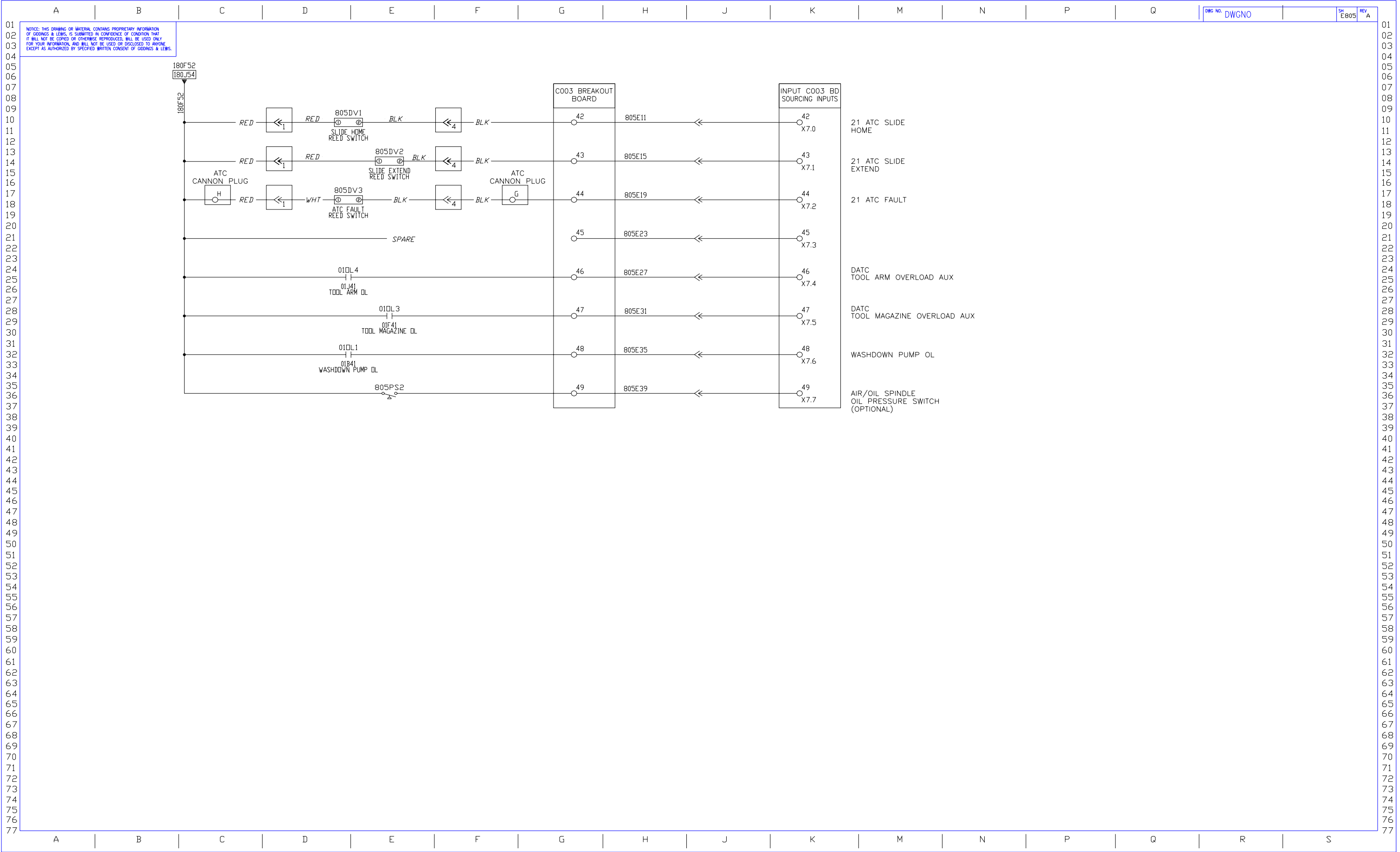
5.17 E803_INPUT CARD FOR C001 BOARD_SHT3



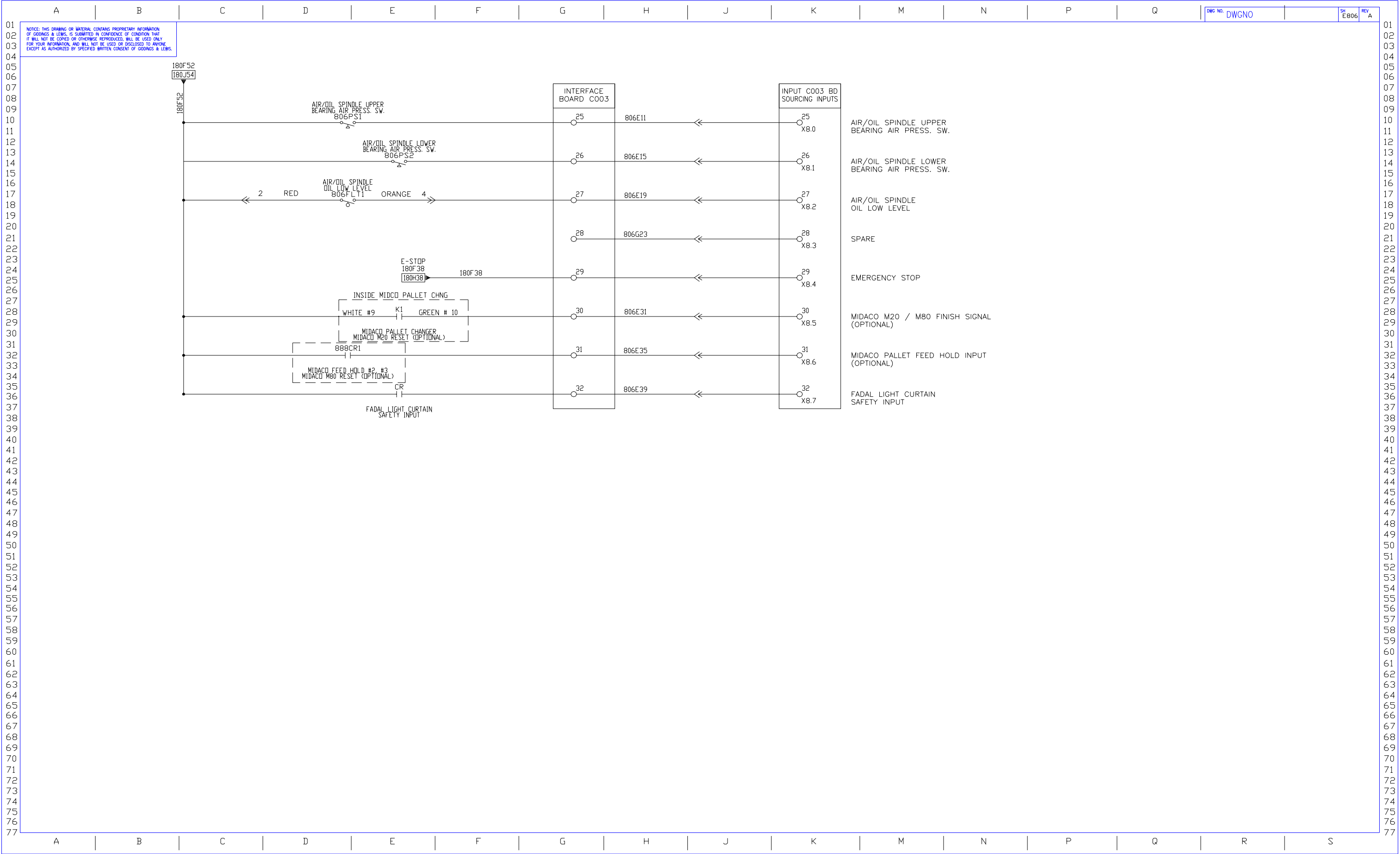
5.18 E804_C001 BOARD JUMPER SETUP DETAIL



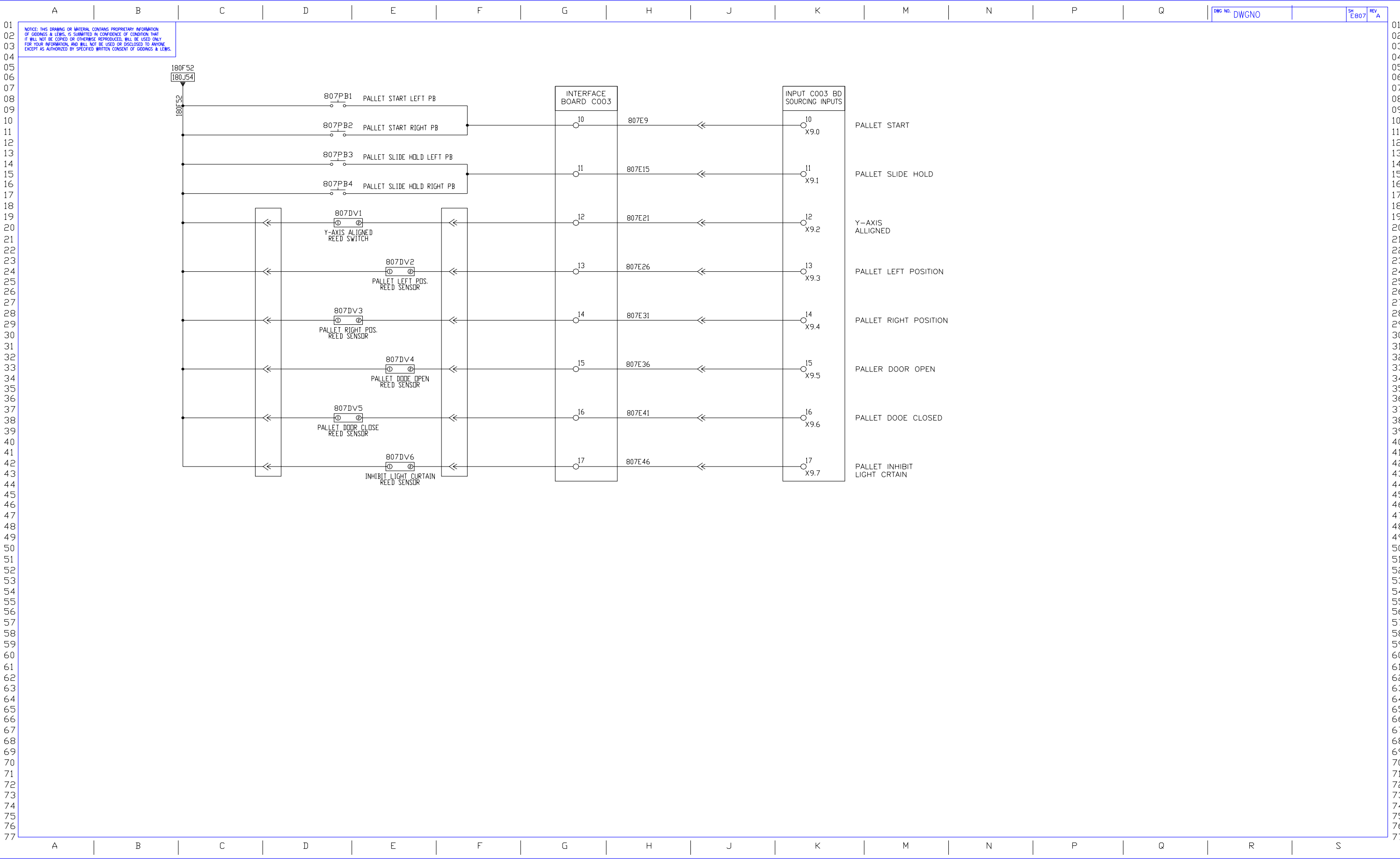
5.19 E805_INPUT CARD FOR C003 BOARD_SHT1



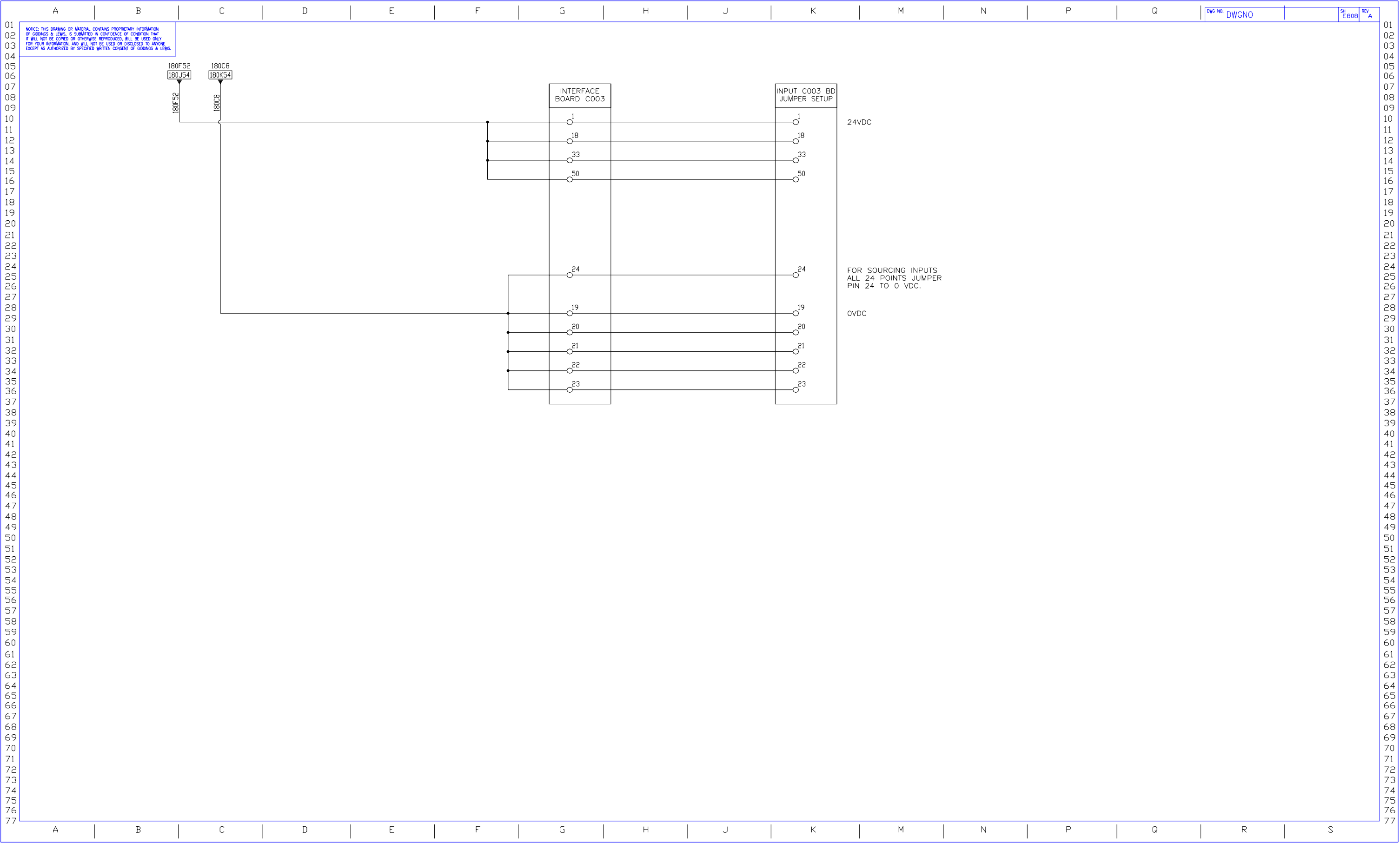
5.20 E806_INPUT CARD FOR C003 BOARD_SHT2



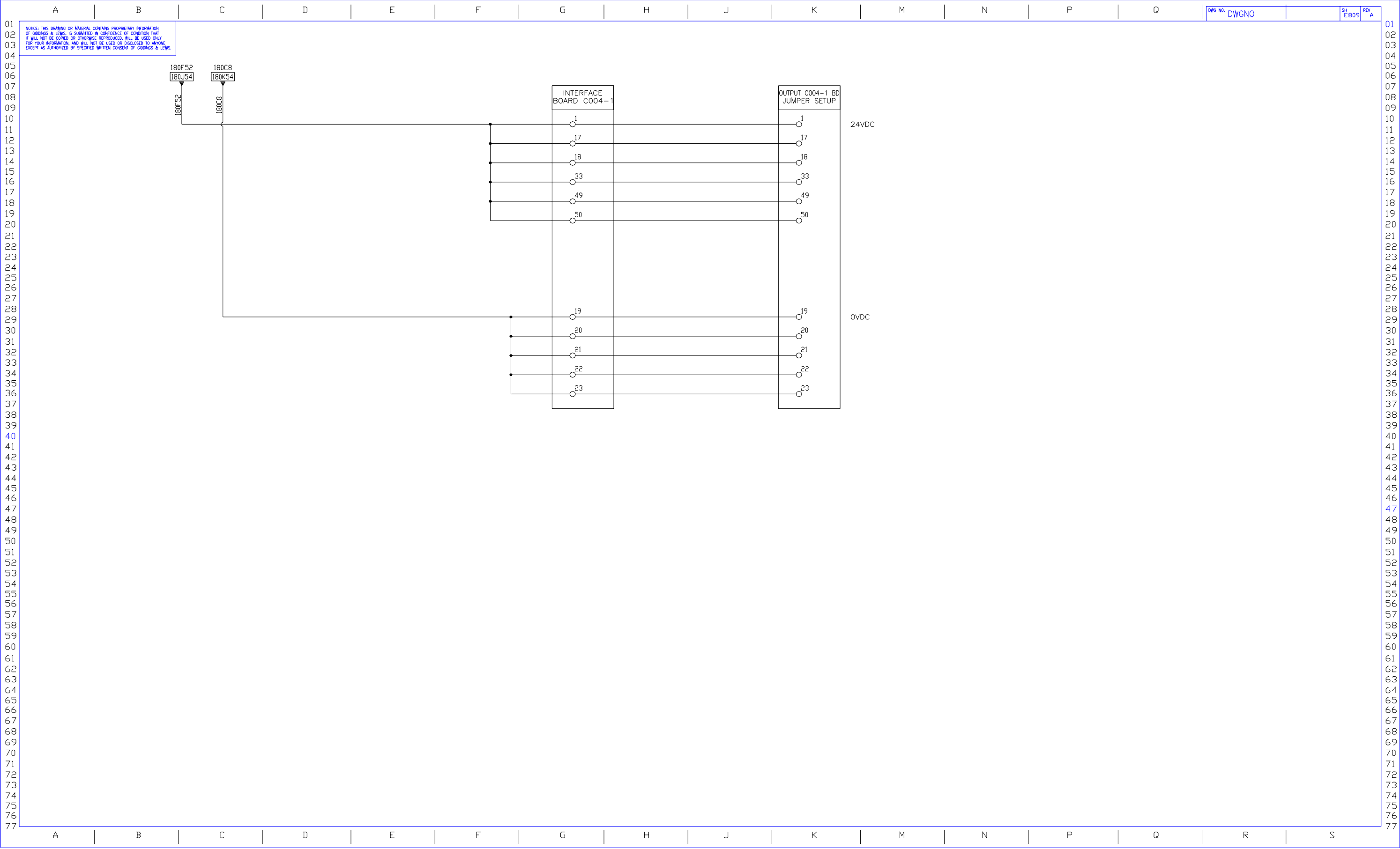
5.21 E807_INPUT CARD FOR C003 BOARD_SHT3



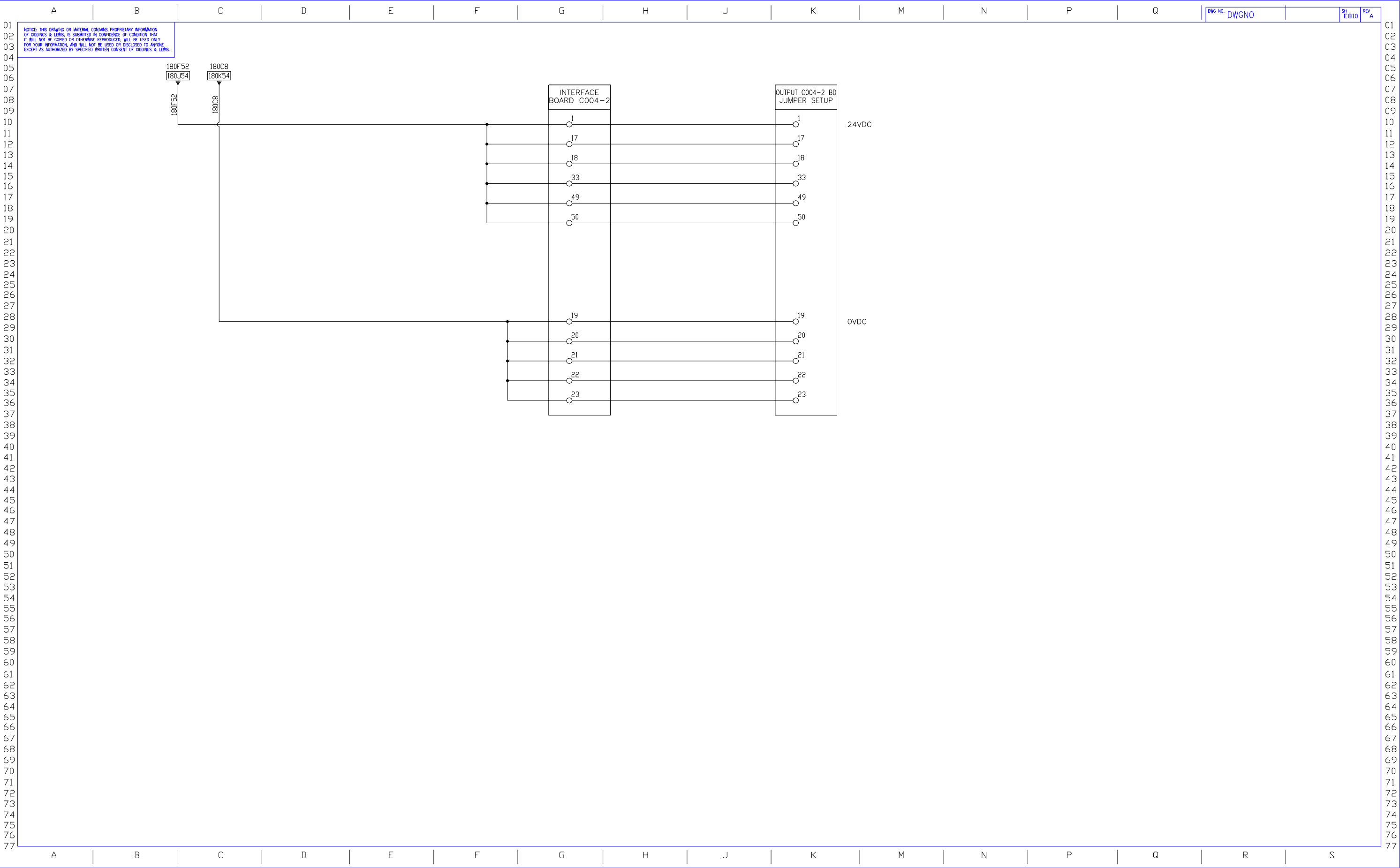
5.22 E808_C003 BOARD JUMPER SETUP DETAIL



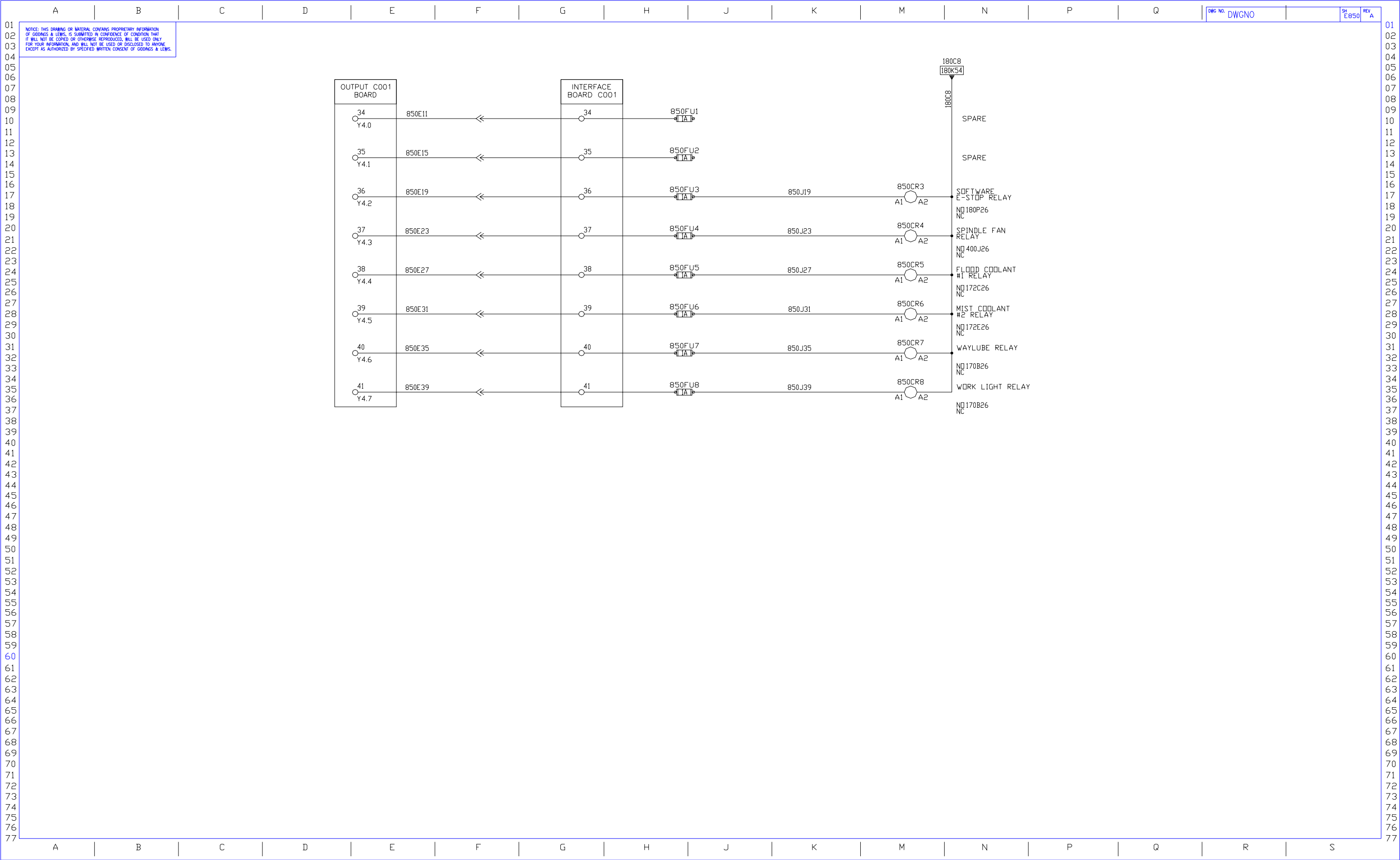
5.23 E809_C004 BOARD JUMPER SETUP DETAIL_SHT1



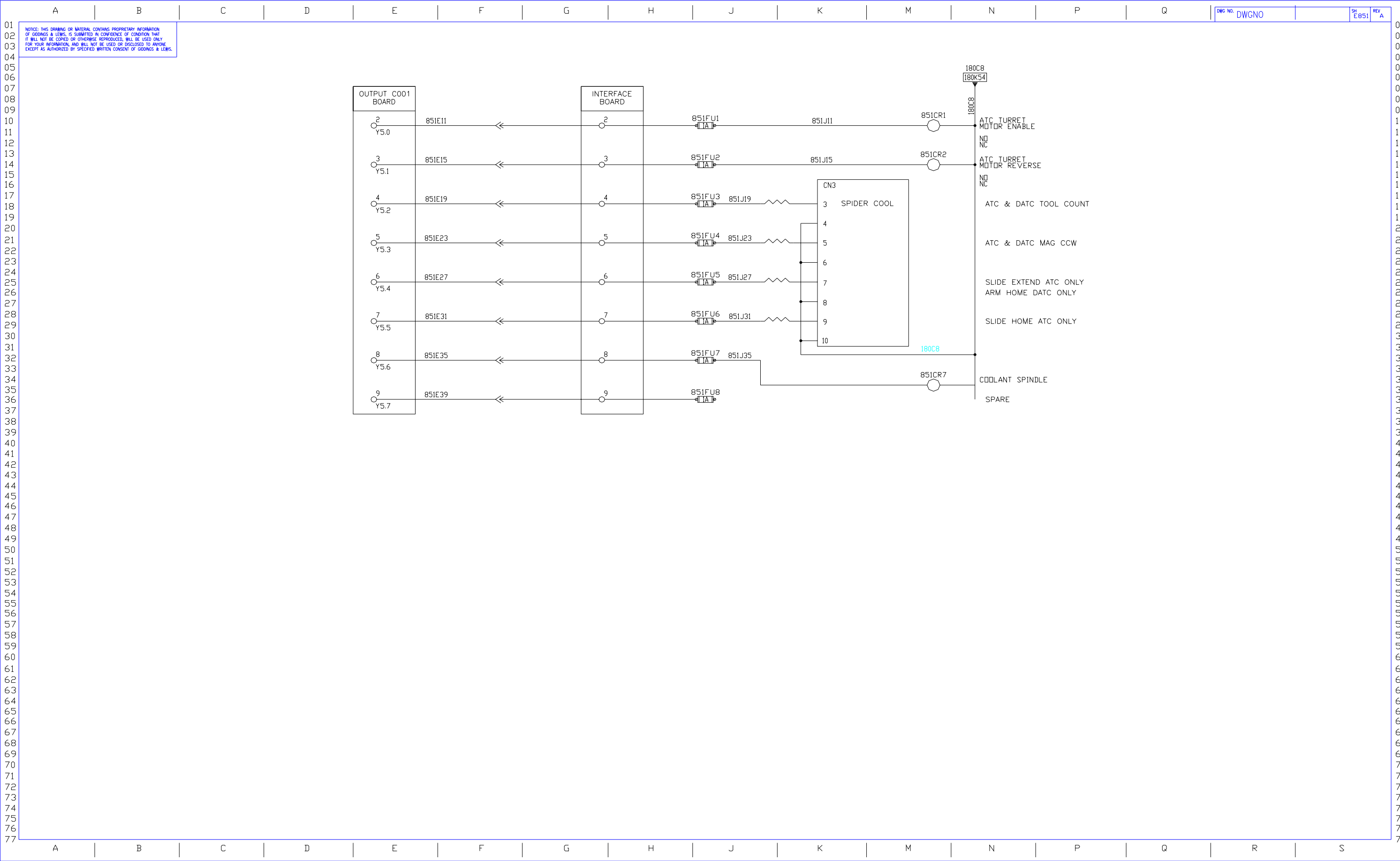
5.24 E810_C004 BOARD JUMPER SETUP DETAIL_SHT2



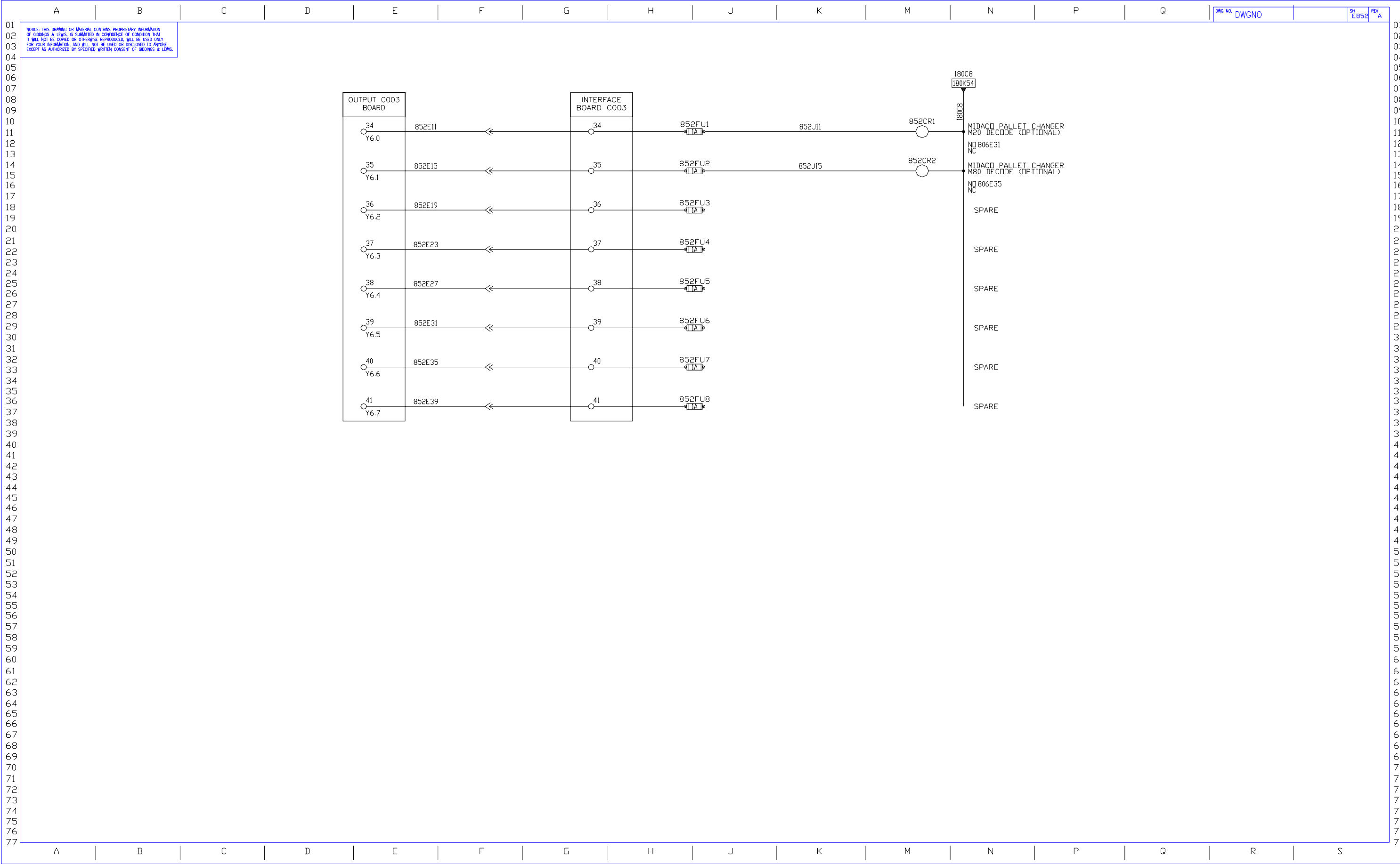
5.25 E850_OUTPUT CARD FOR C001 BOARD_SHT1



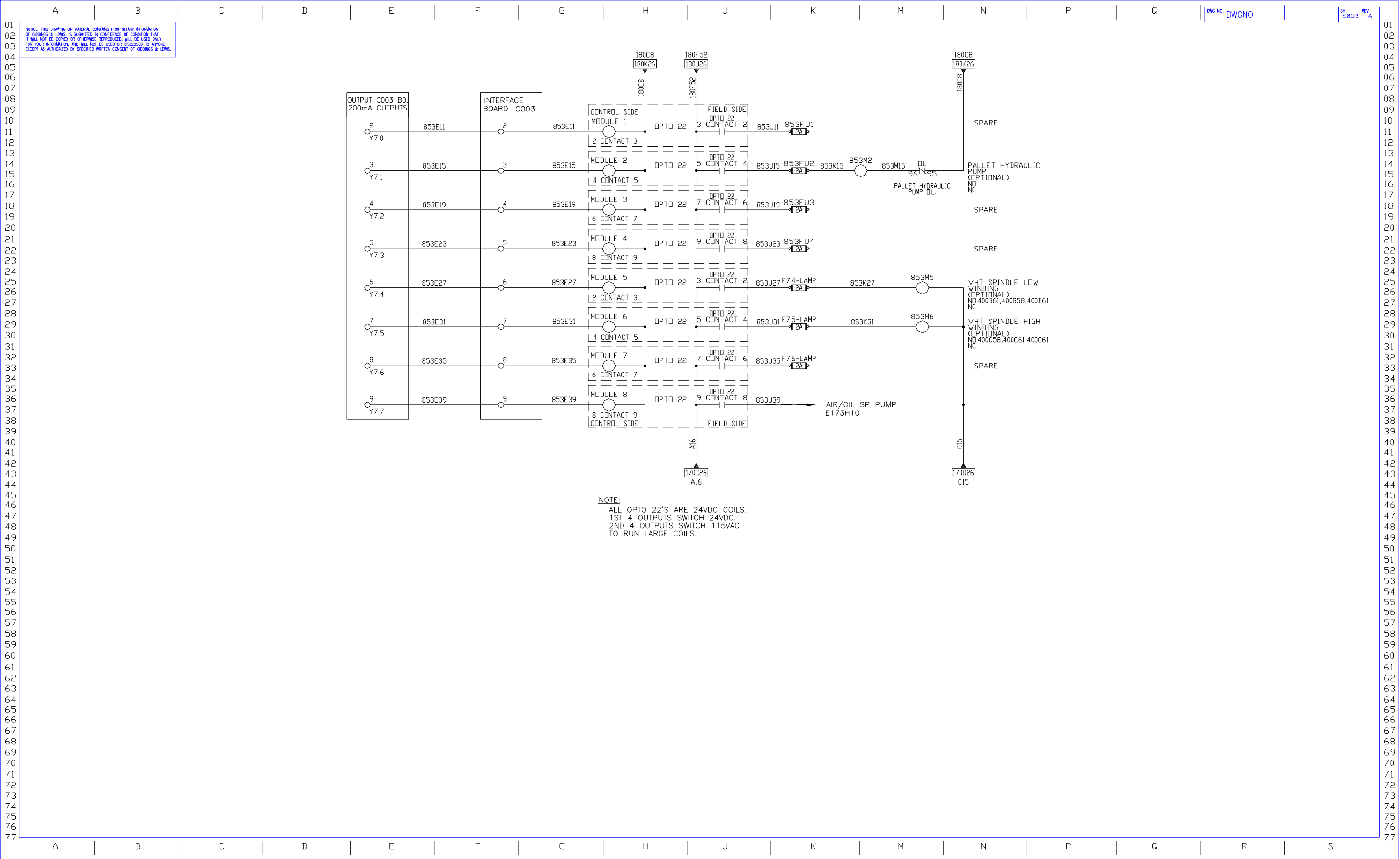
5.26 E851_OUTPUT CARD FOR C001 BOARD_SHT2



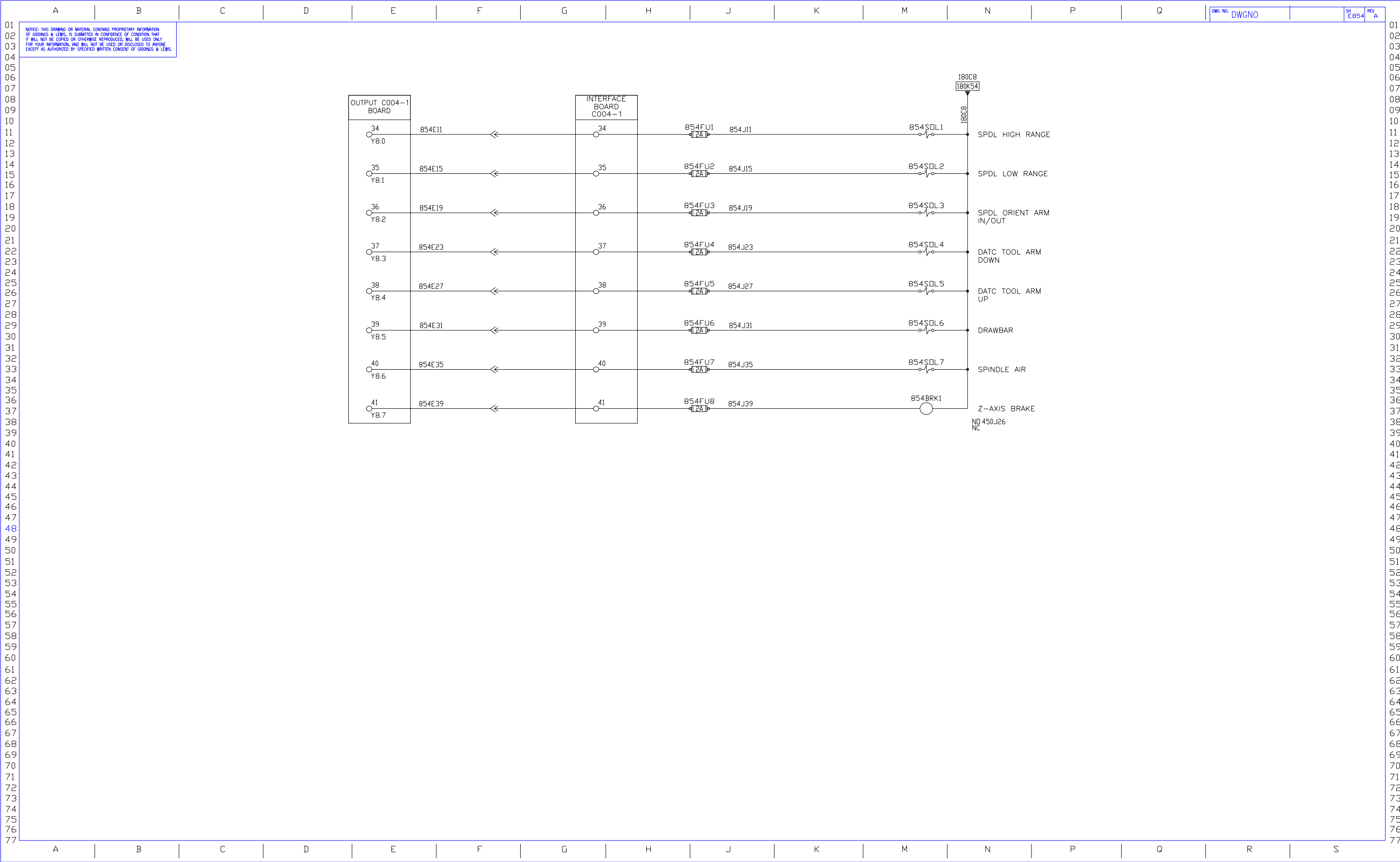
5.27 E852_OUTPUT CARD FOR C003 BOARD_SHT1



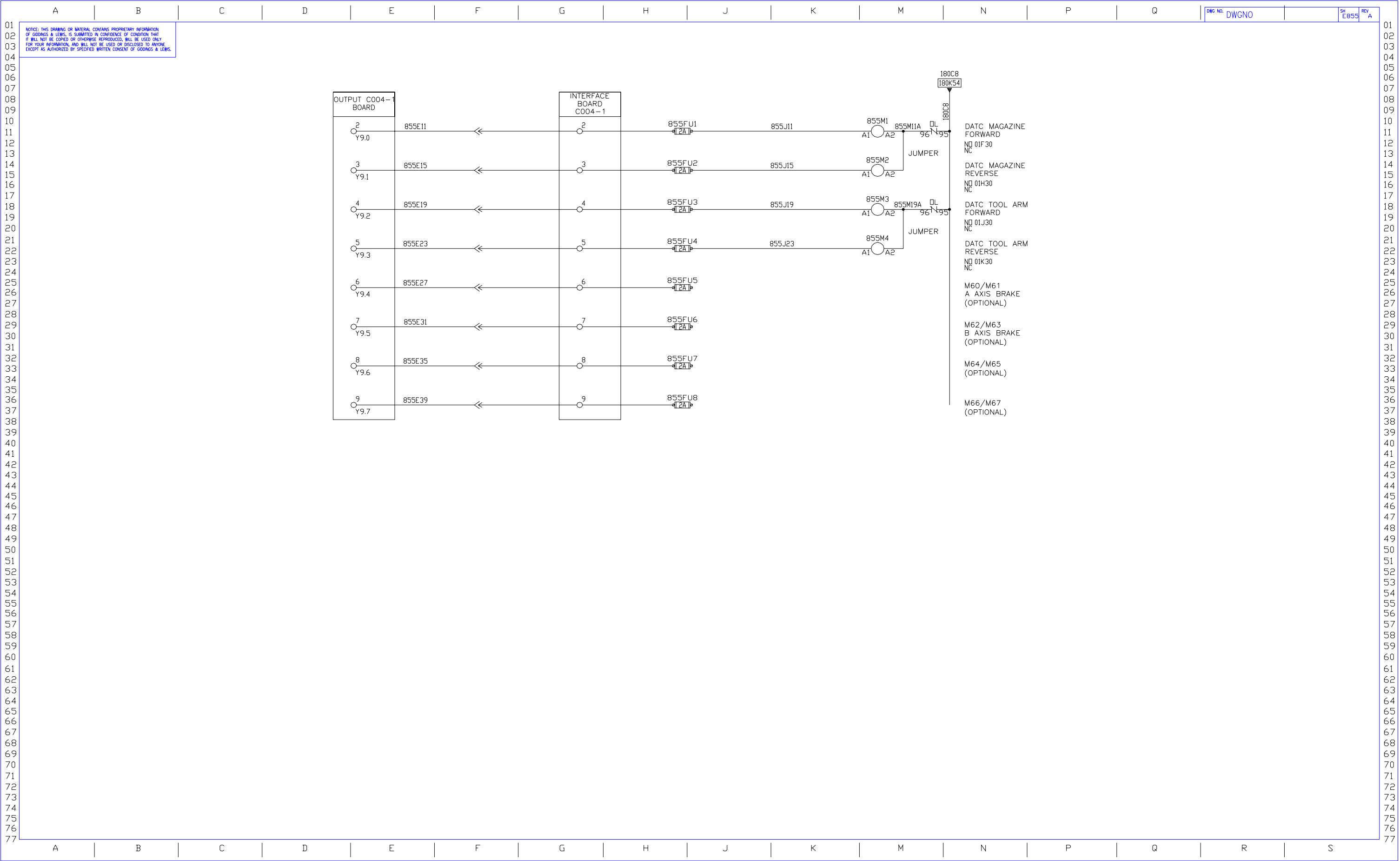
5.28 E853_OUTPUT CARD FOR C003 BOARD_SHT2



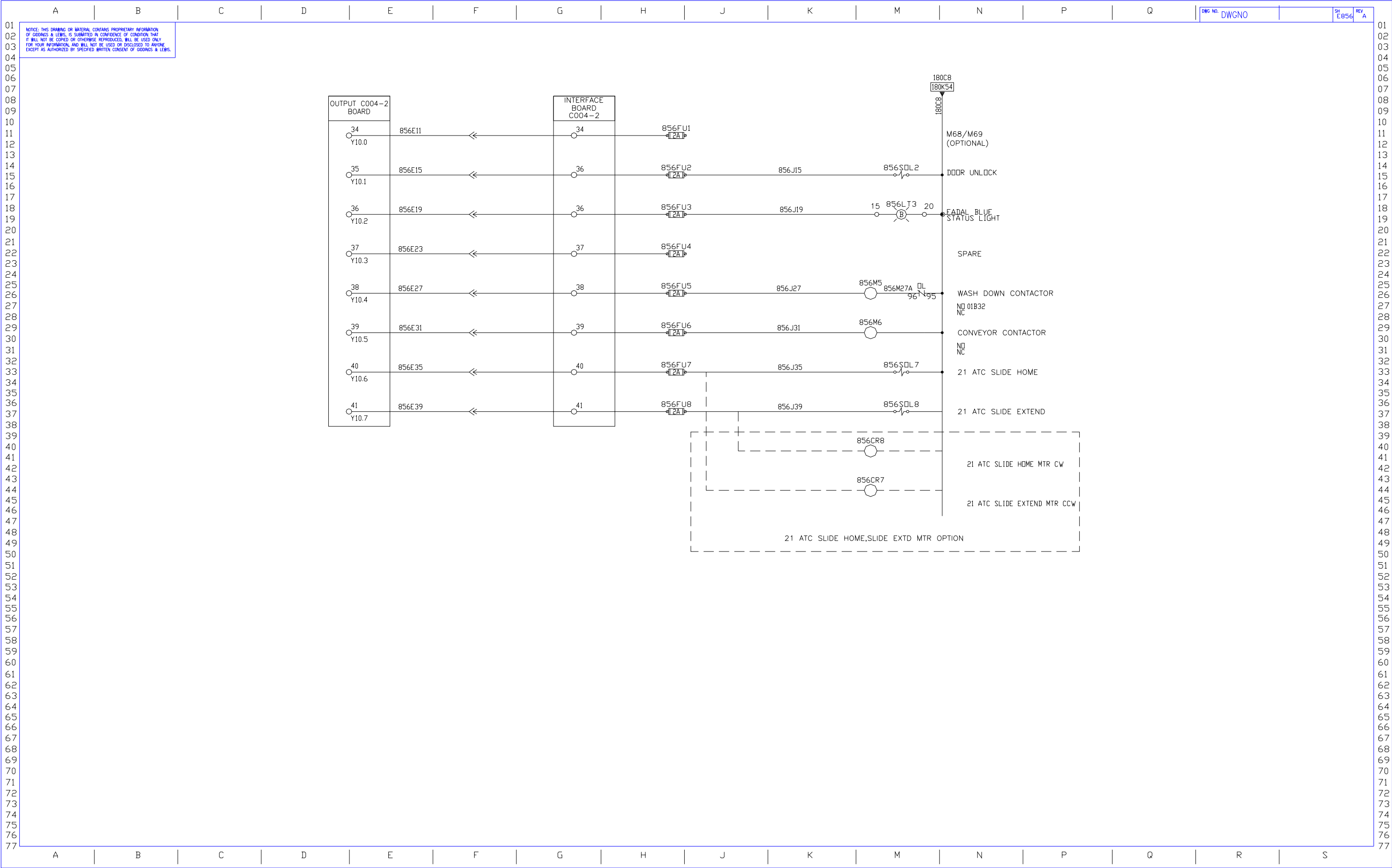
5.29 E854_OUTPUT CARD FOR C004-1 BOARD_SHT1



5.30 E855_OUTPUT CARD FOR C004-1 BOARD



5.31 E856_OUTPUT CARD FOR C004-2 BOARD_SHT1



5.32 E857_OUTPUT CARD FOR C004-2 BOARD_SHT2

