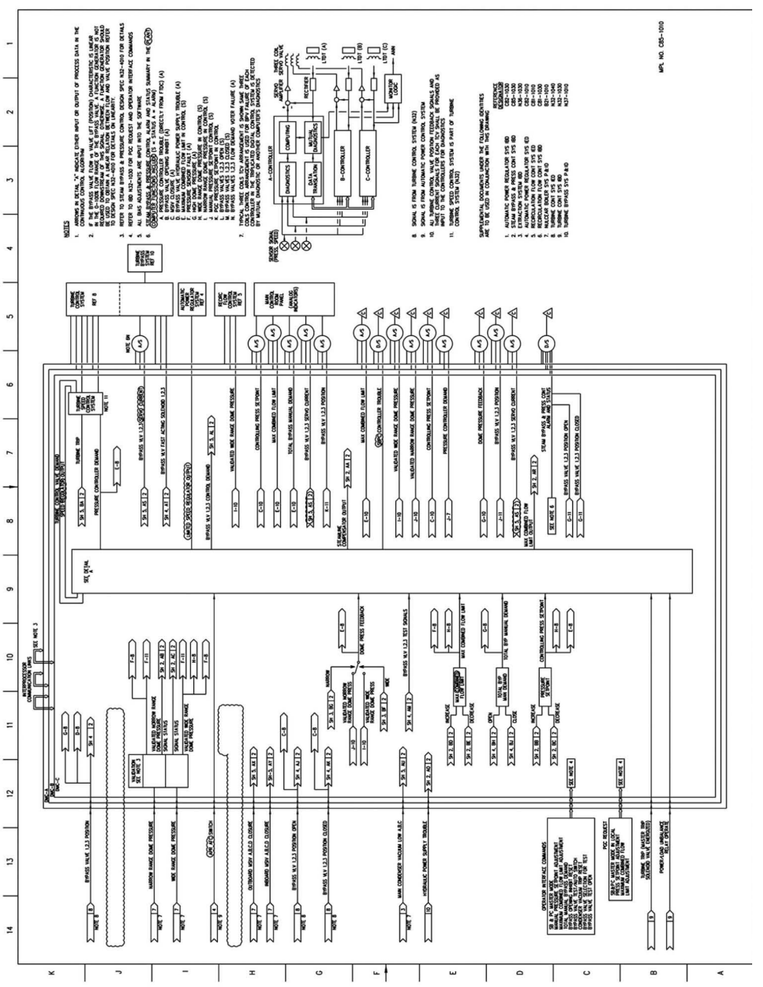


Figure 7.7-12 – Steam Bypass and Pressure Control System IED (Sheet 1 of 2)

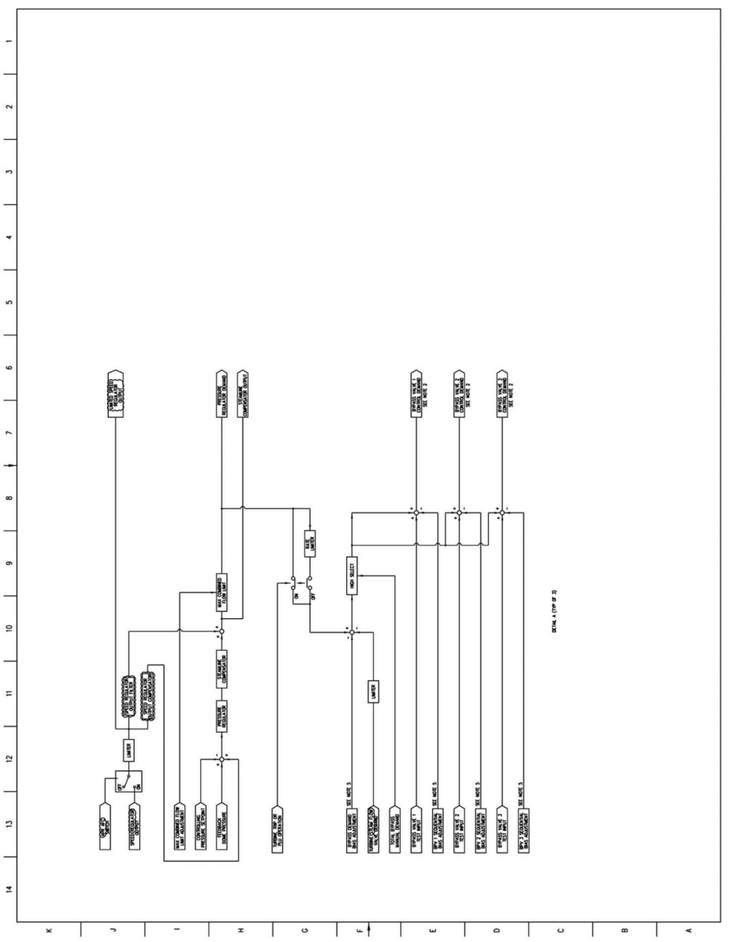


Figure 7.7-12 – Steam Bypass and Pressure Control System IED (Sheet 2 of 2)

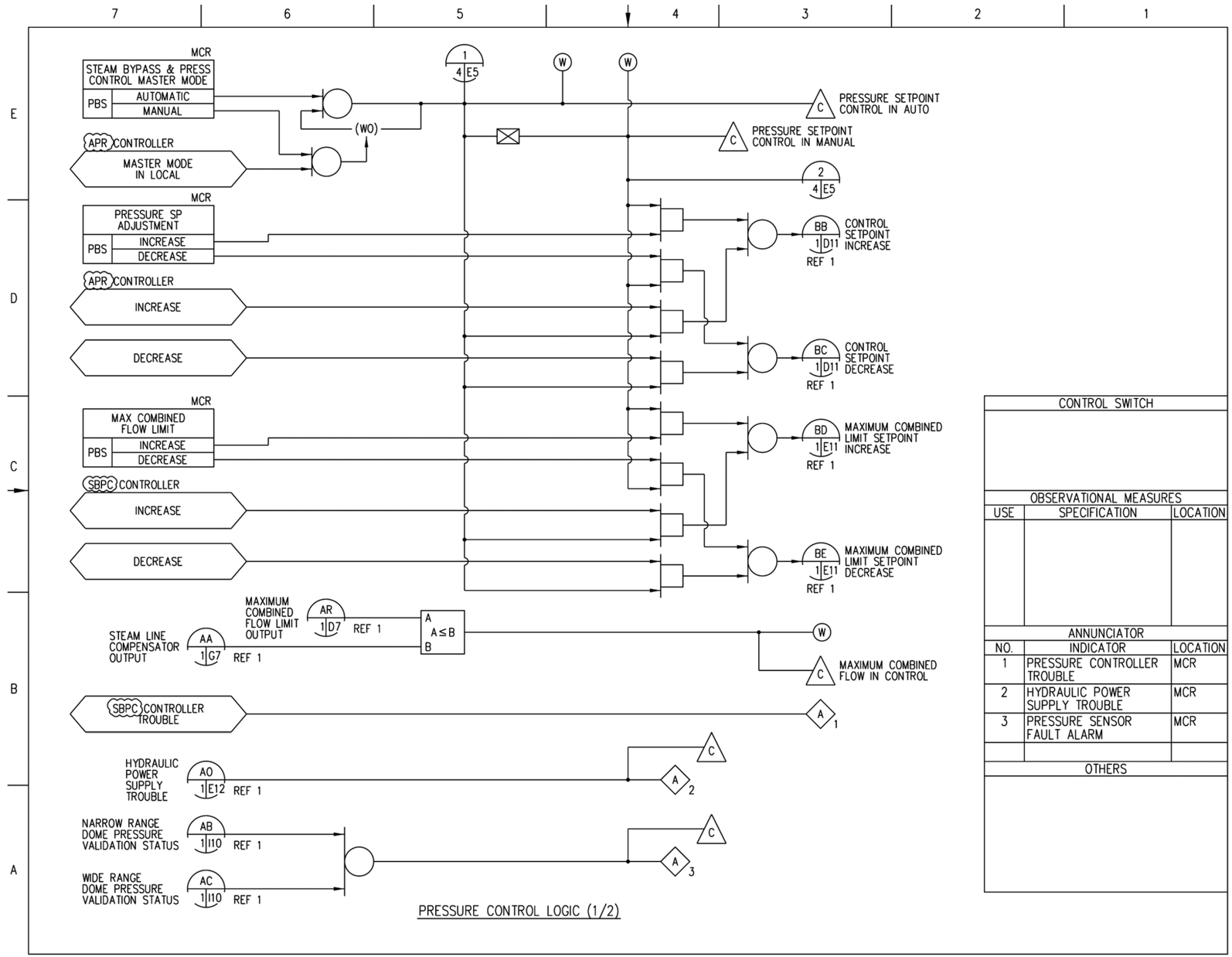


Figure 7.7-13 – Steam Bypass and Pressure Control System IBD (Sheet 2 of 5)

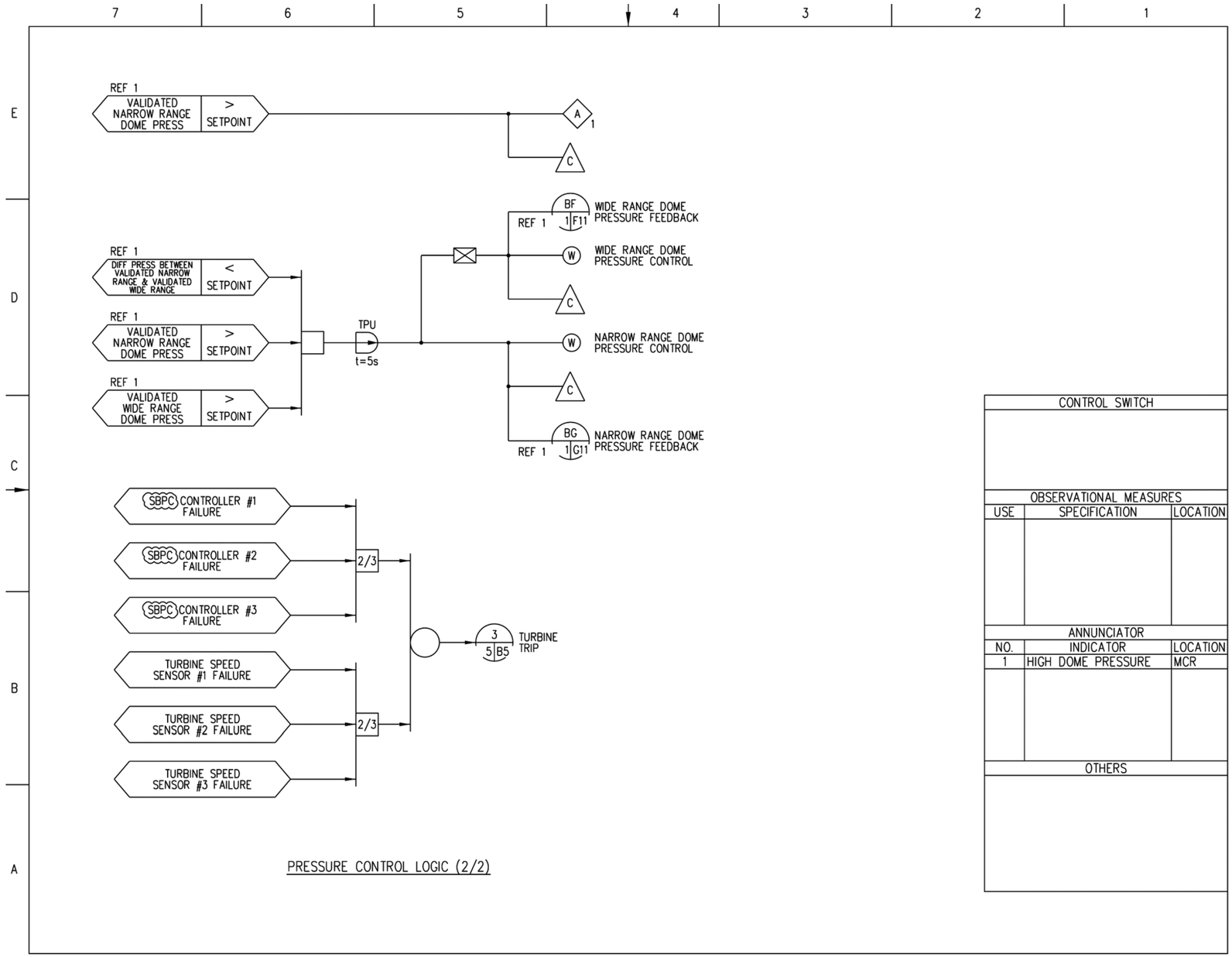


Figure 7.7-13 – Steam Bypass and Pressure Control System IBD (Sheet 3 of 5)

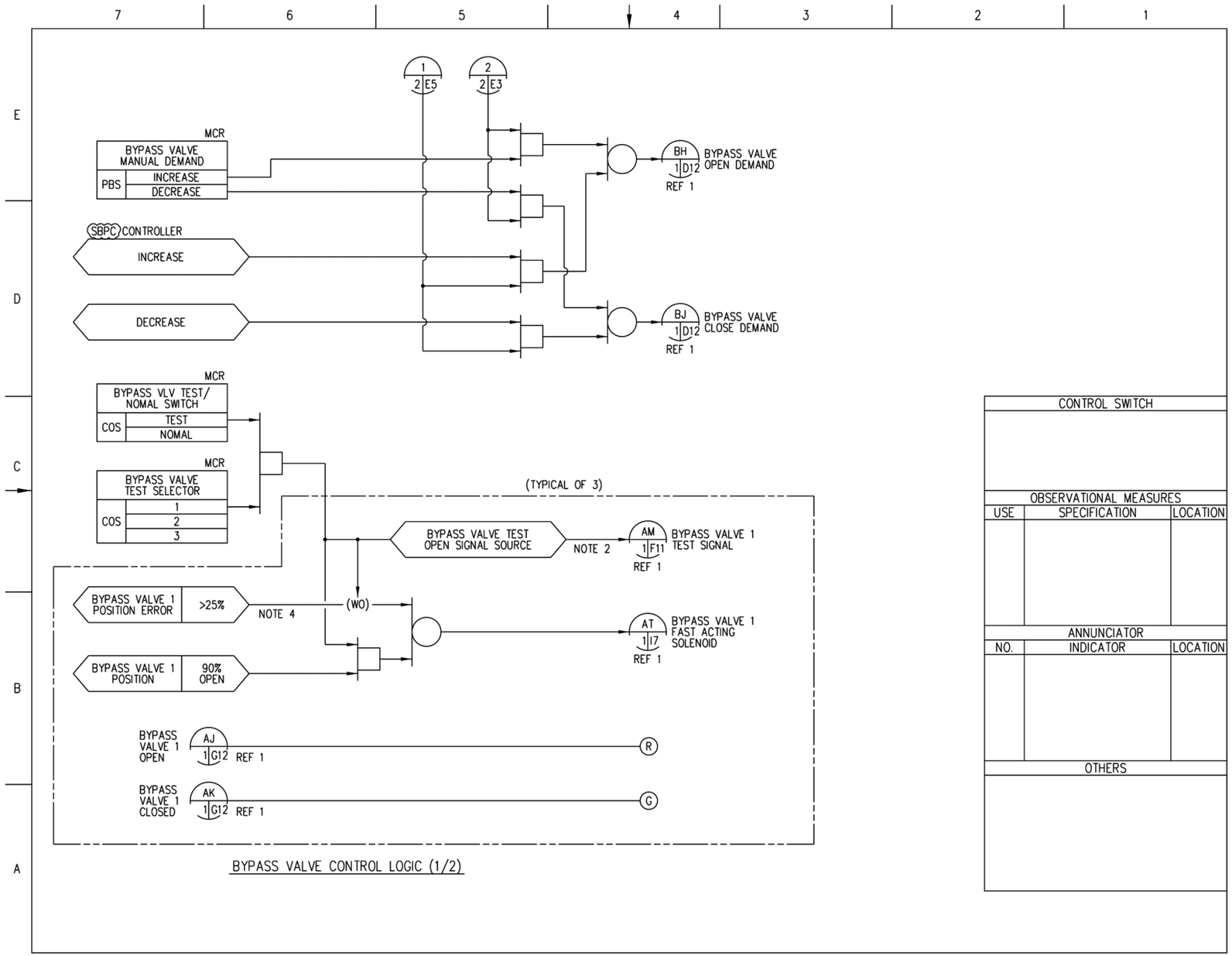


Figure 7.7-13 – Steam Bypass and Pressure Control System IBD (Sheet 4 of 5)

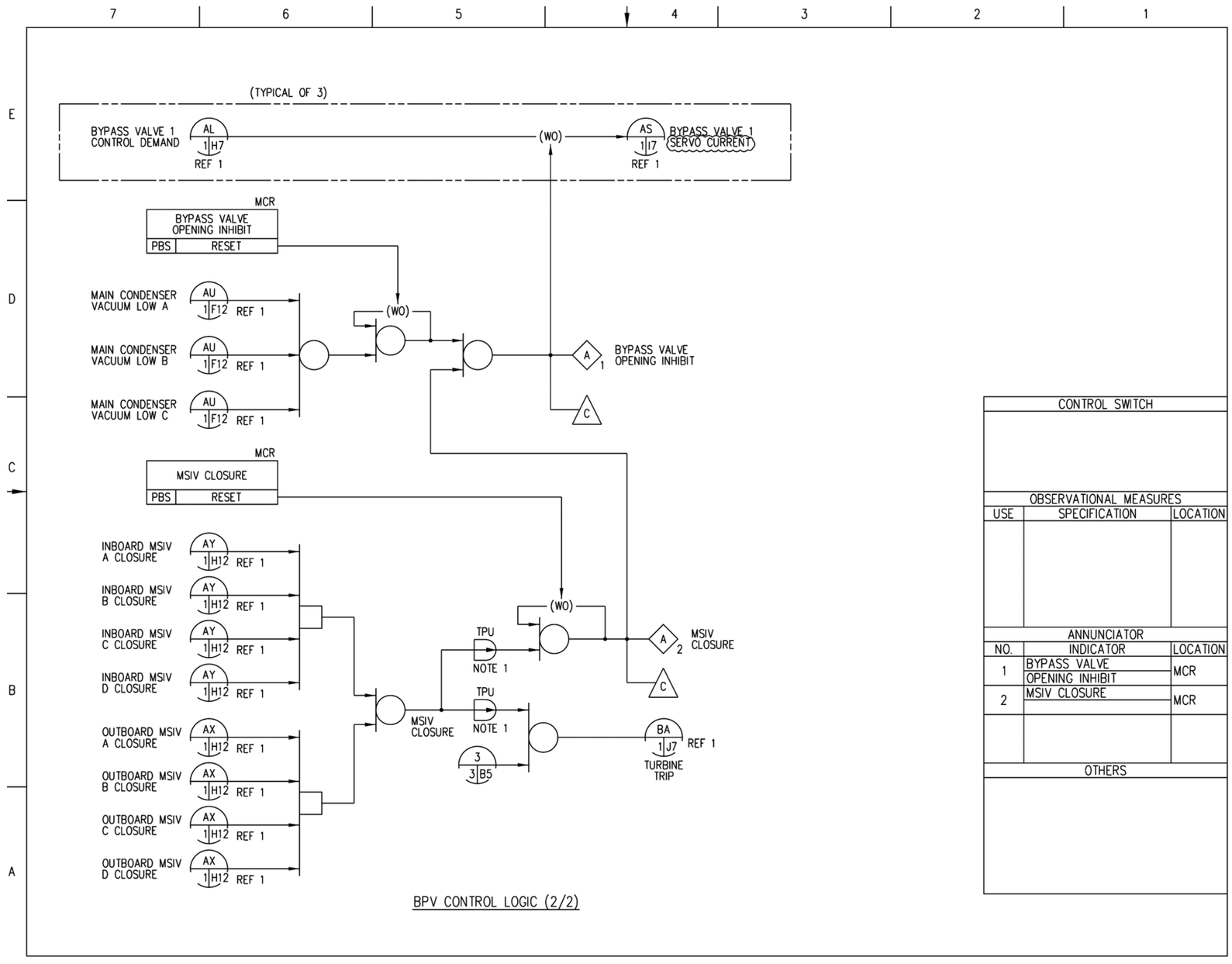


Figure 7.7-13 – Steam Bypass and Pressure Control System IBD (Sheet 5 of 5)

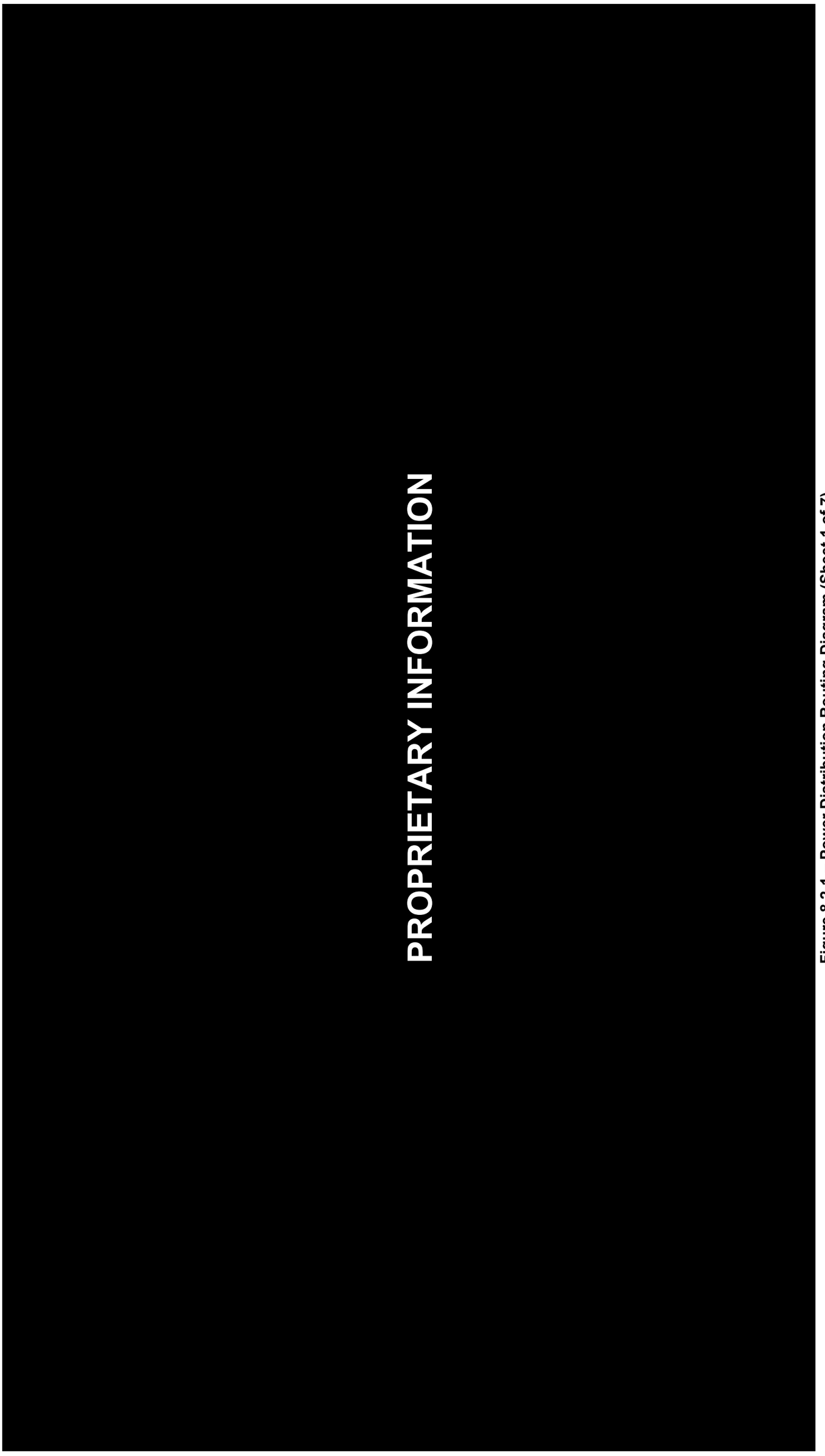


Figure 8.2-1 – Power Distribution Routing Diagram (Sheet 1 of 7)

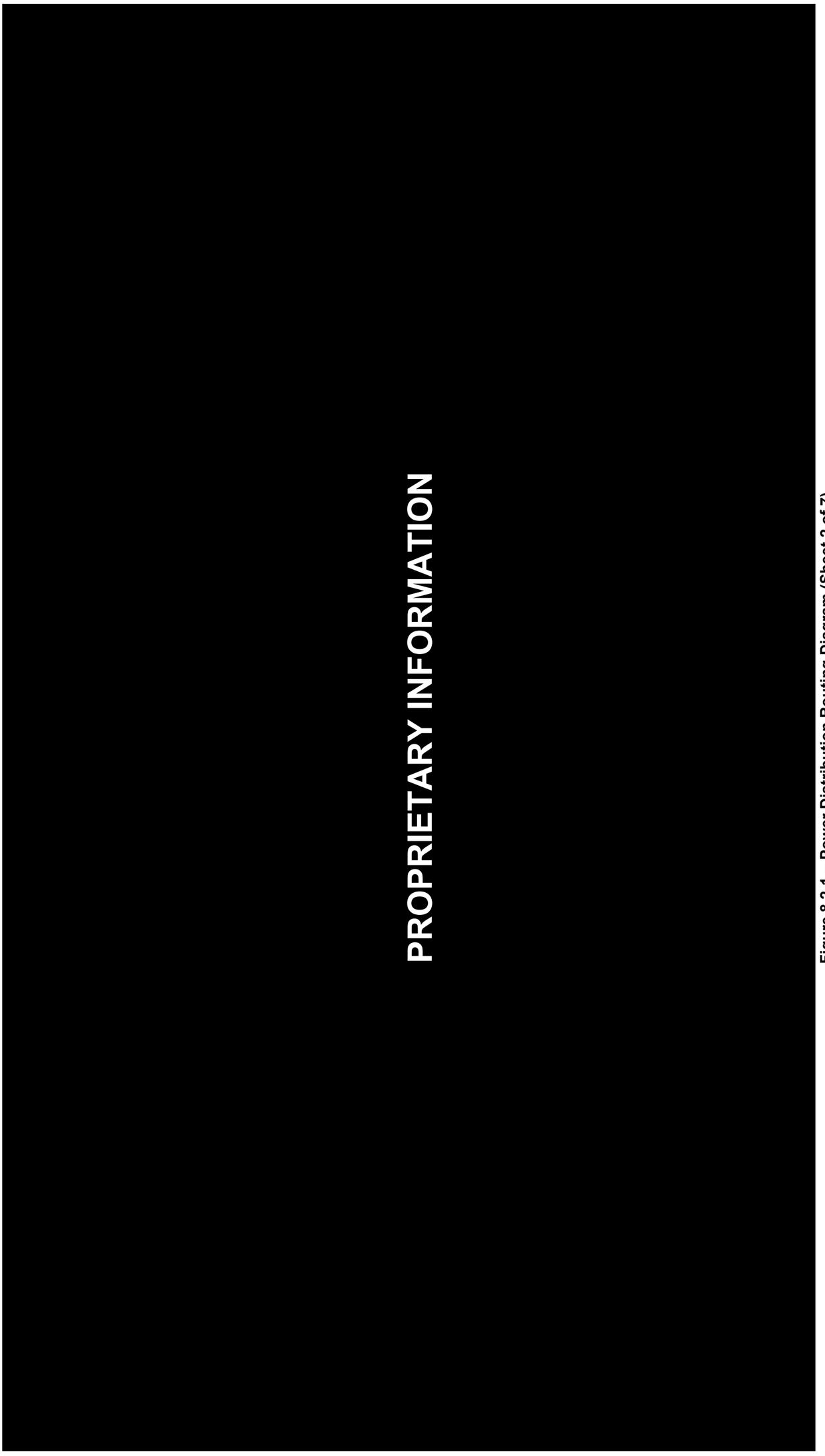


Figure 8.2-1 – Power Distribution Routing Diagram (Sheet 2 of 7)

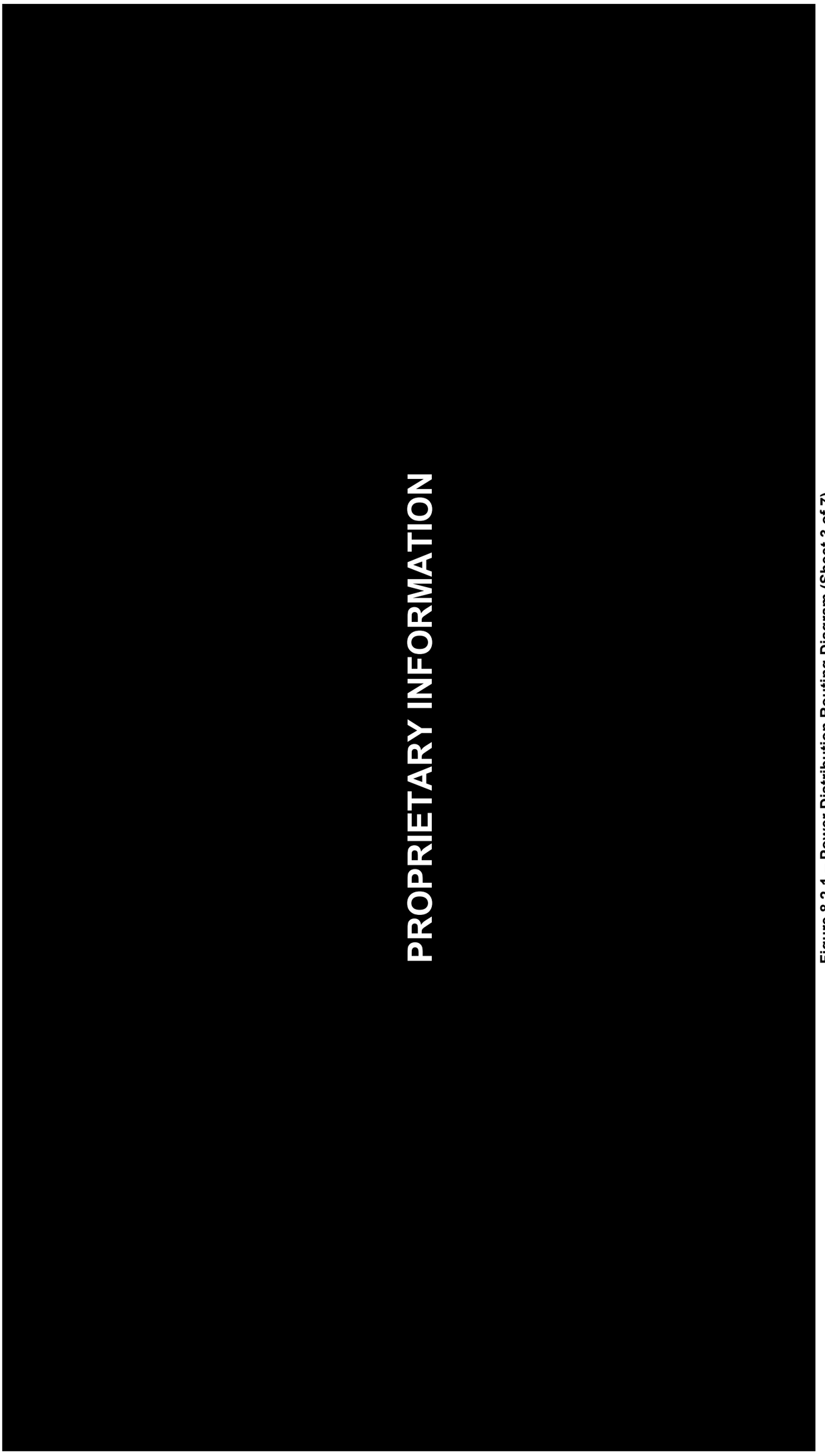


Figure 8.2-1 – Power Distribution Routing Diagram (Sheet 3 of 7)

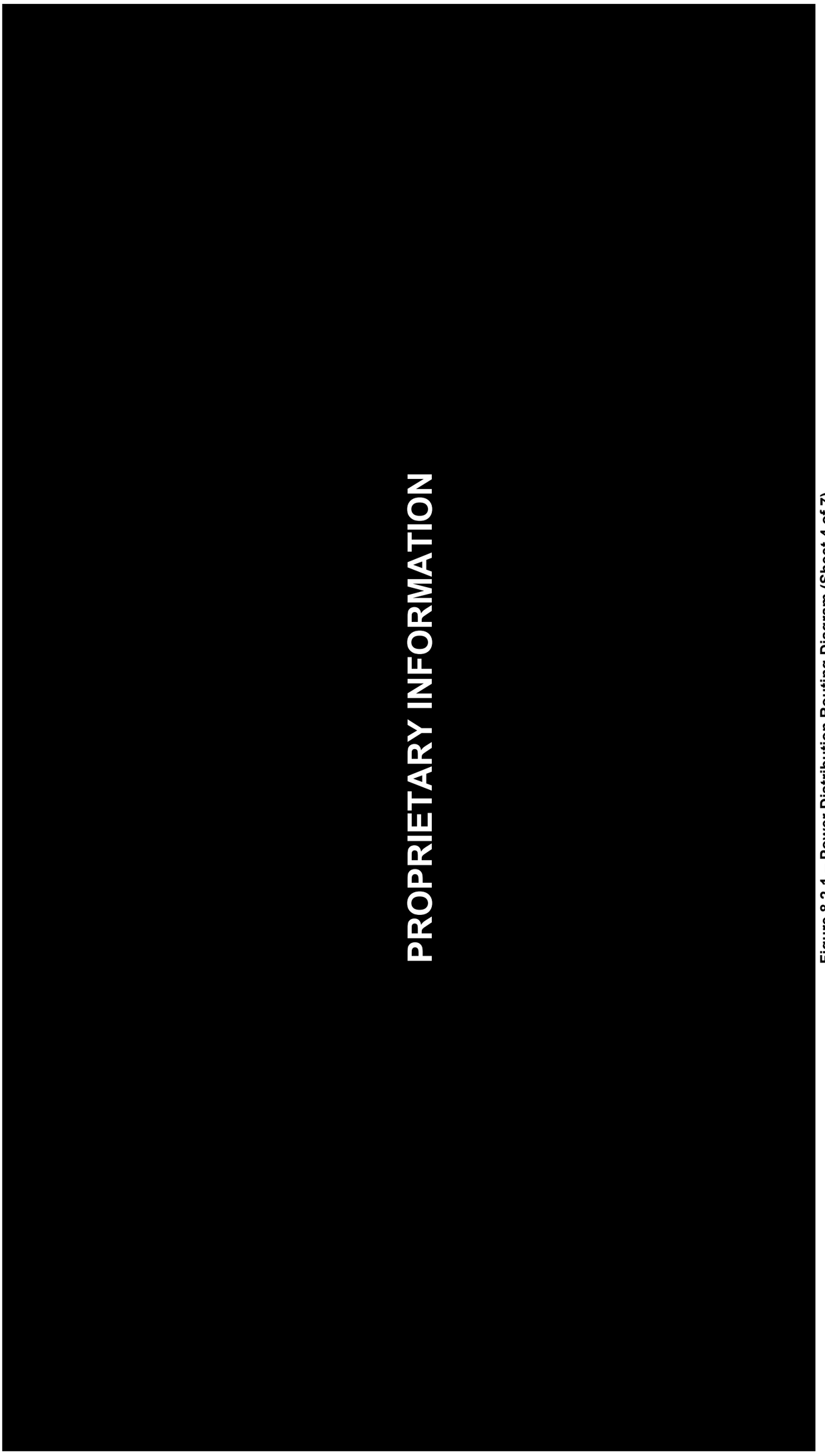


Figure 8.2-1 – Power Distribution Routing Diagram (Sheet 4 of 7)

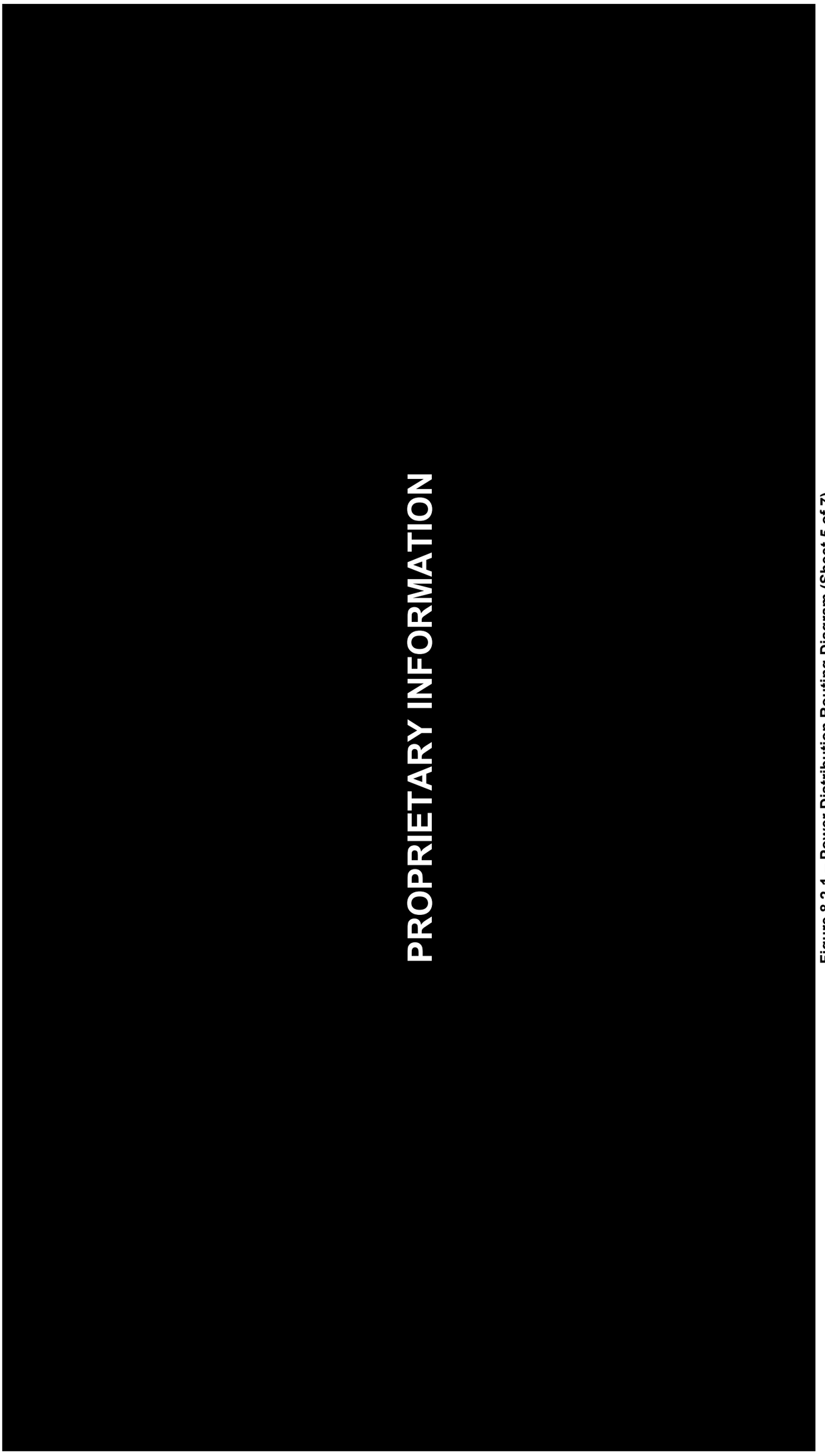


Figure 8.2-1 – Power Distribution Routing Diagram (Sheet 5 of 7)

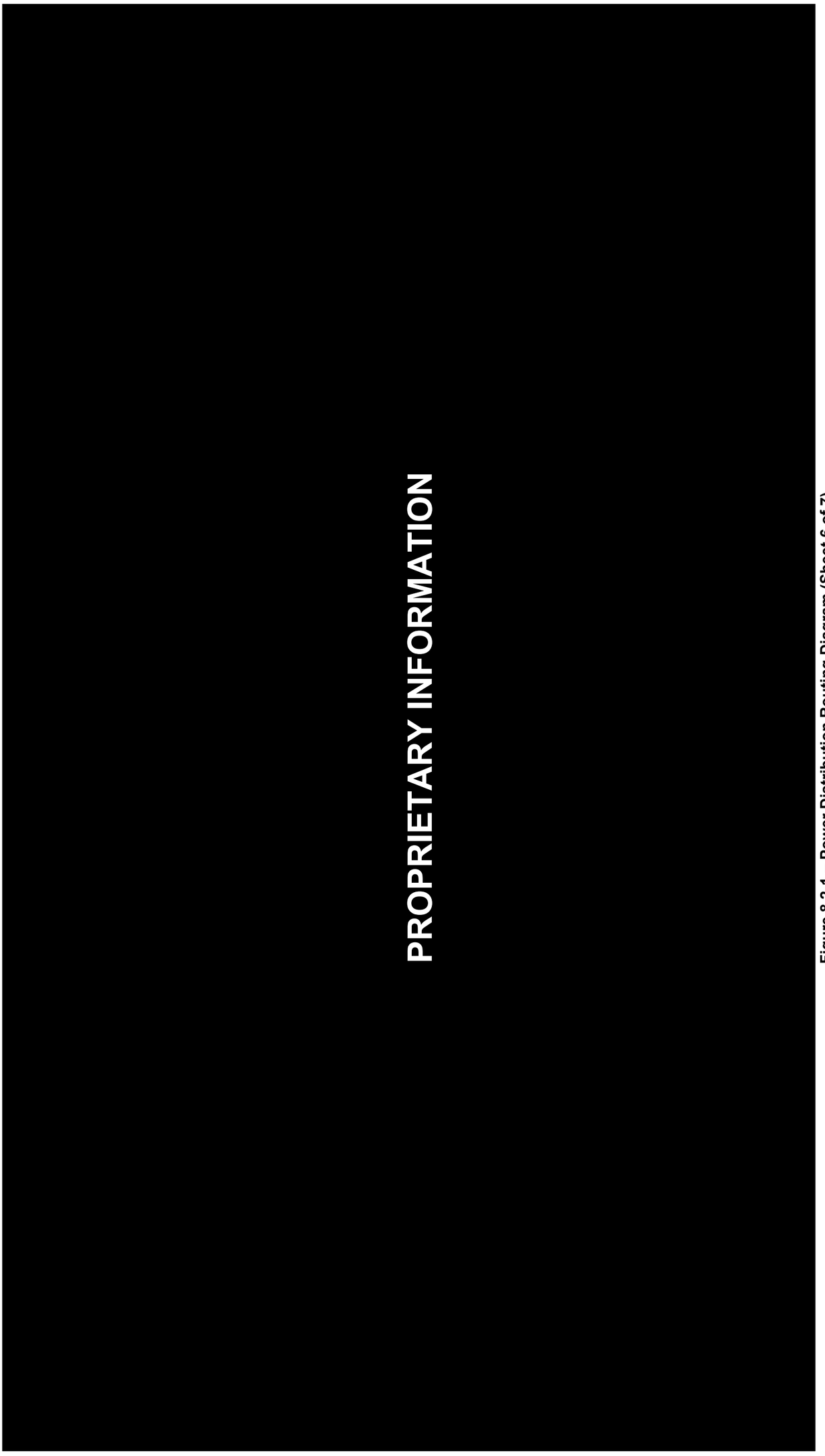


Figure 8.2-1 – Power Distribution Routing Diagram (Sheet 6 of 7)

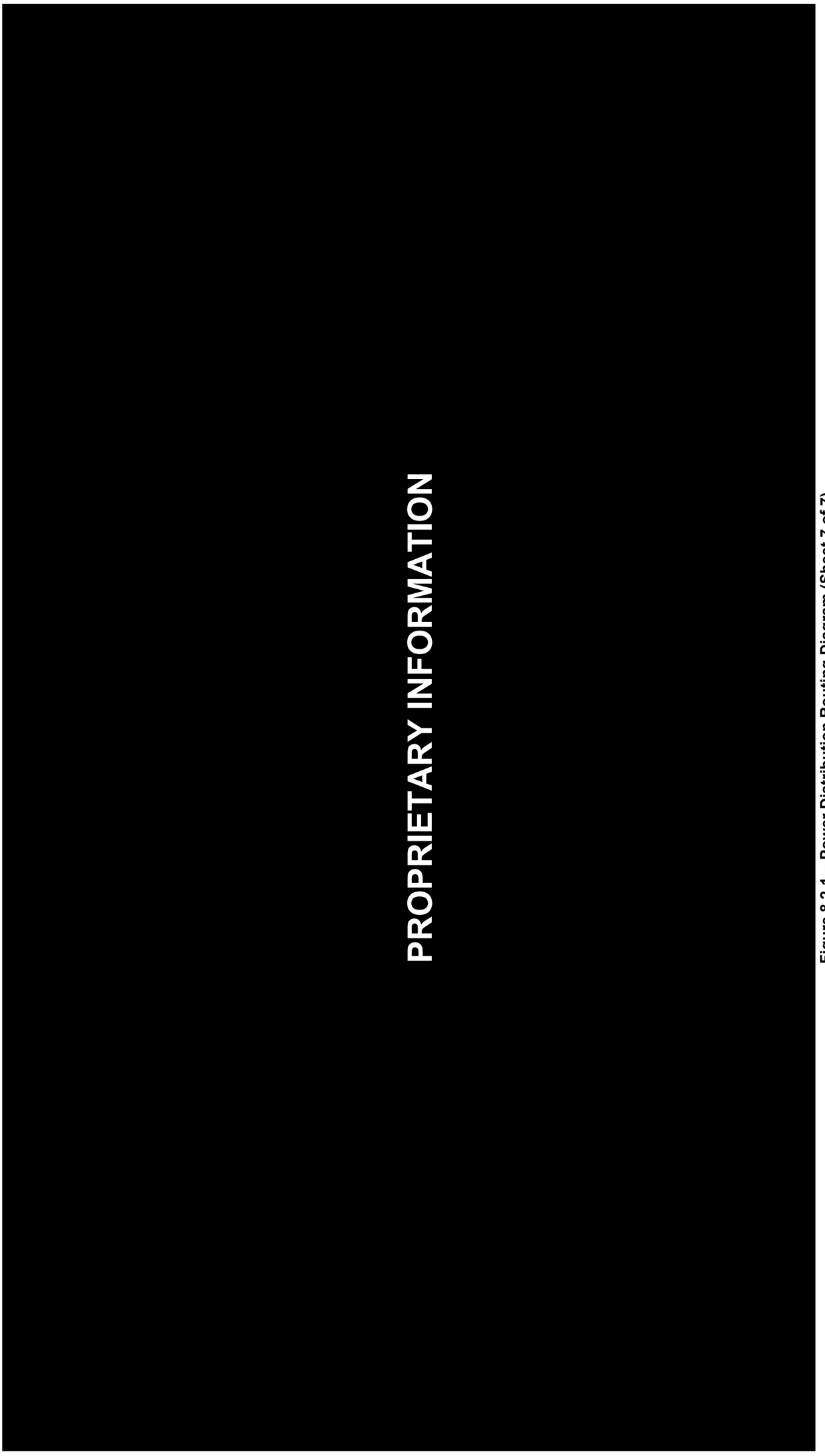


Figure 8.2-1 – Power Distribution Routing Diagram (Sheet 7 of 7)

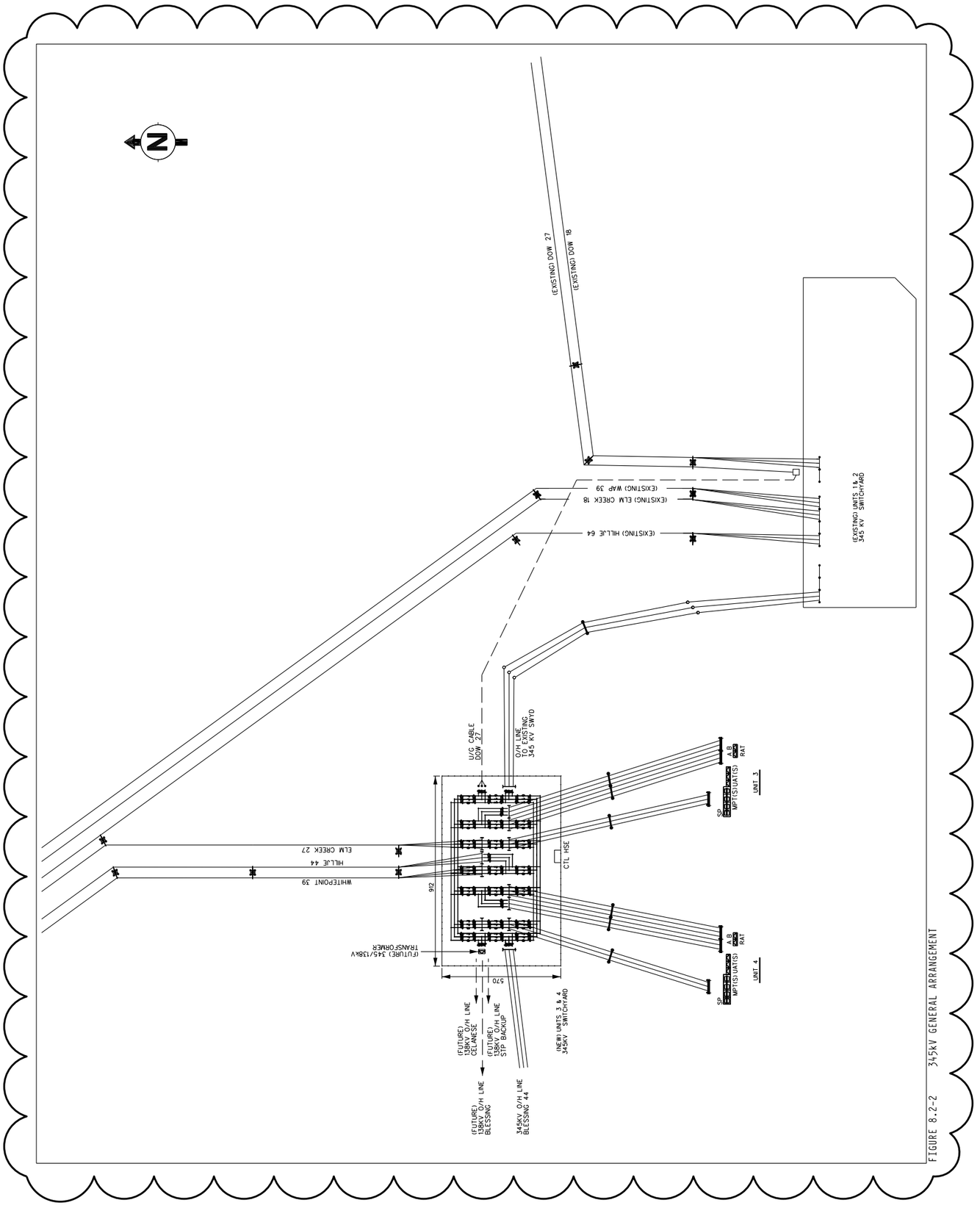


Figure 8.2-2 – 345 kV General Arrangement

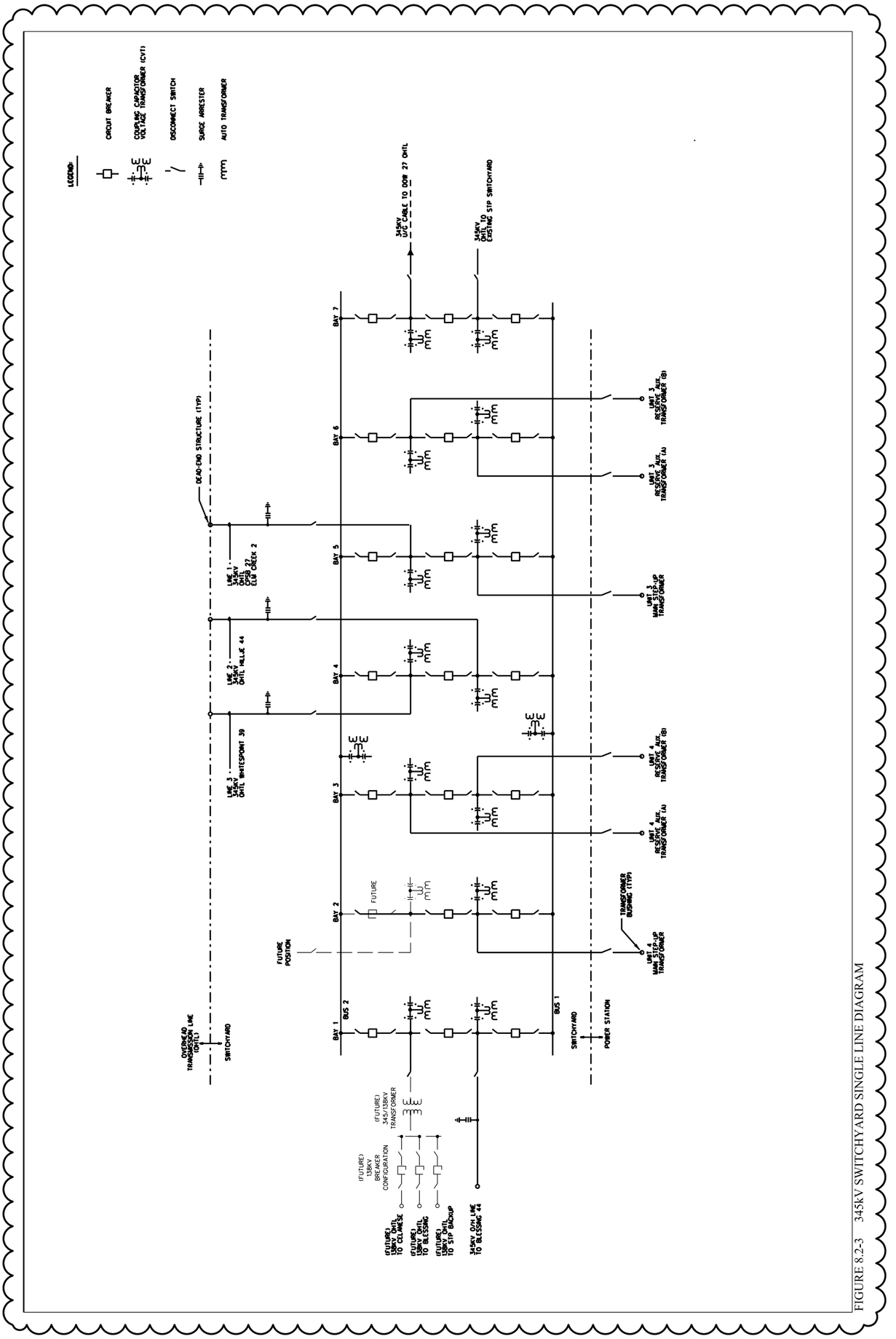


FIGURE 8.2-3 345kV SWITCHYARD SINGLE LINE DIAGRAM

Figure 8.2-3 – 345 kV Switchyard Single Line Diagram

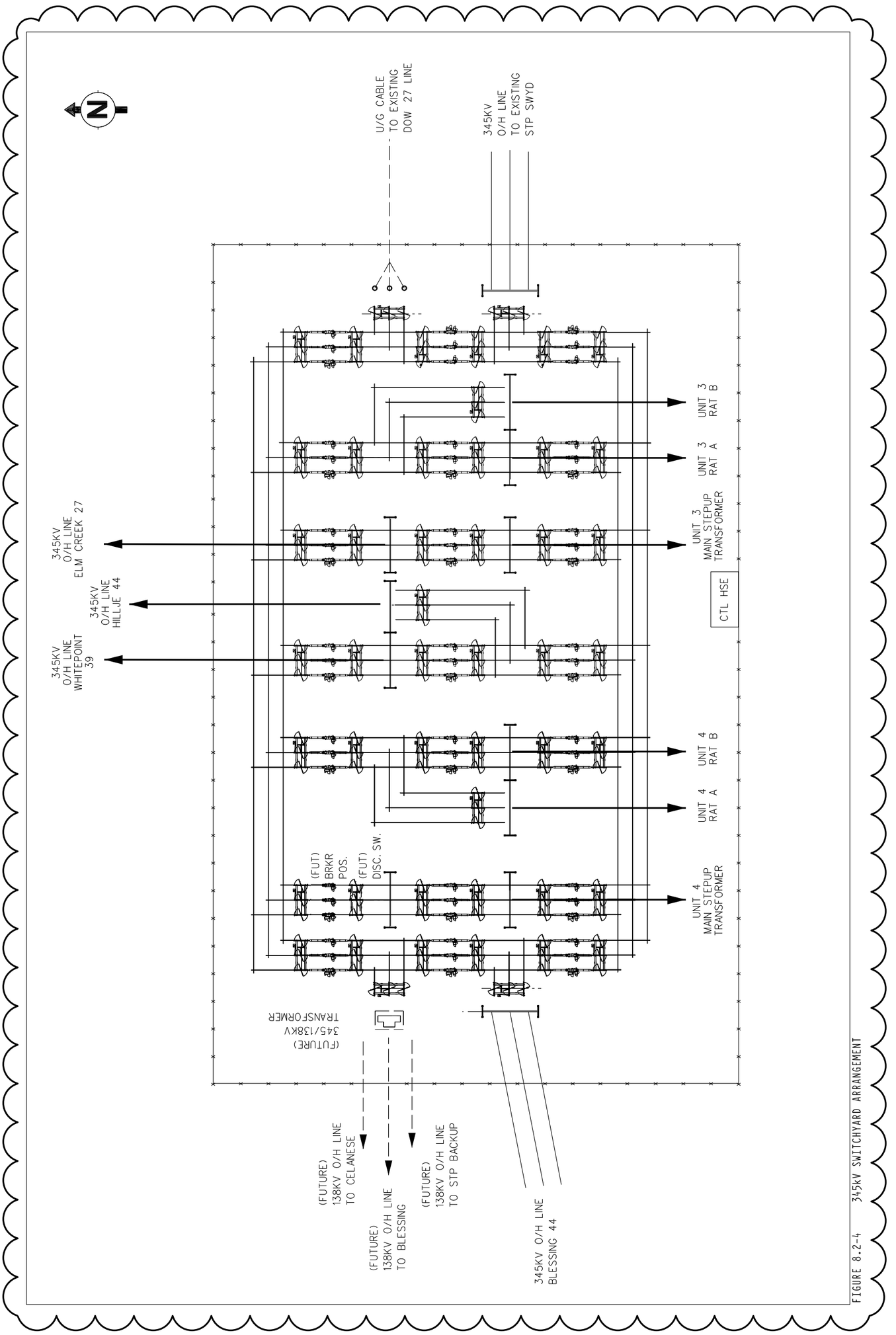


Figure 8.2-4 – 345 kV Switchyard Arrangement

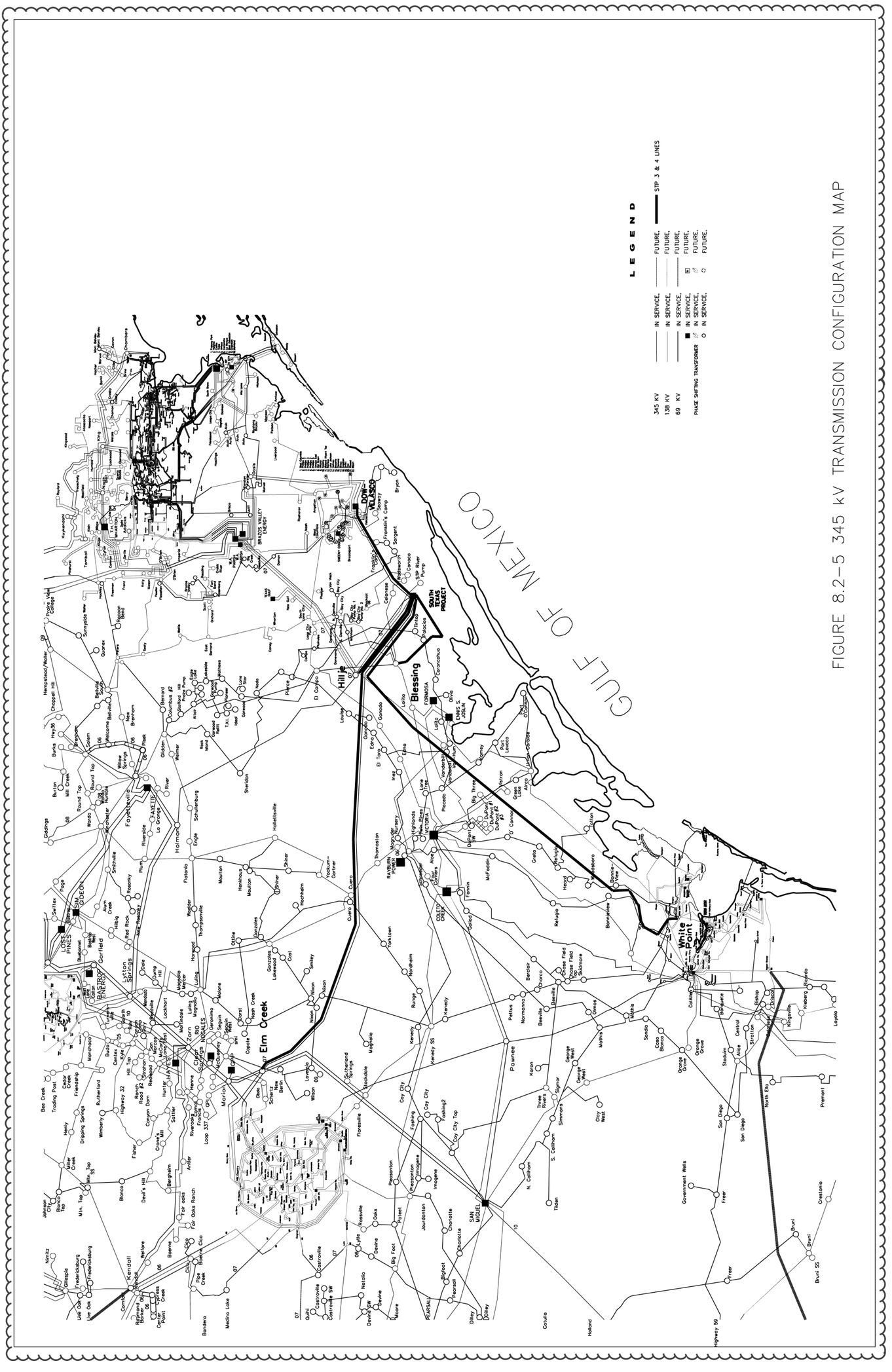
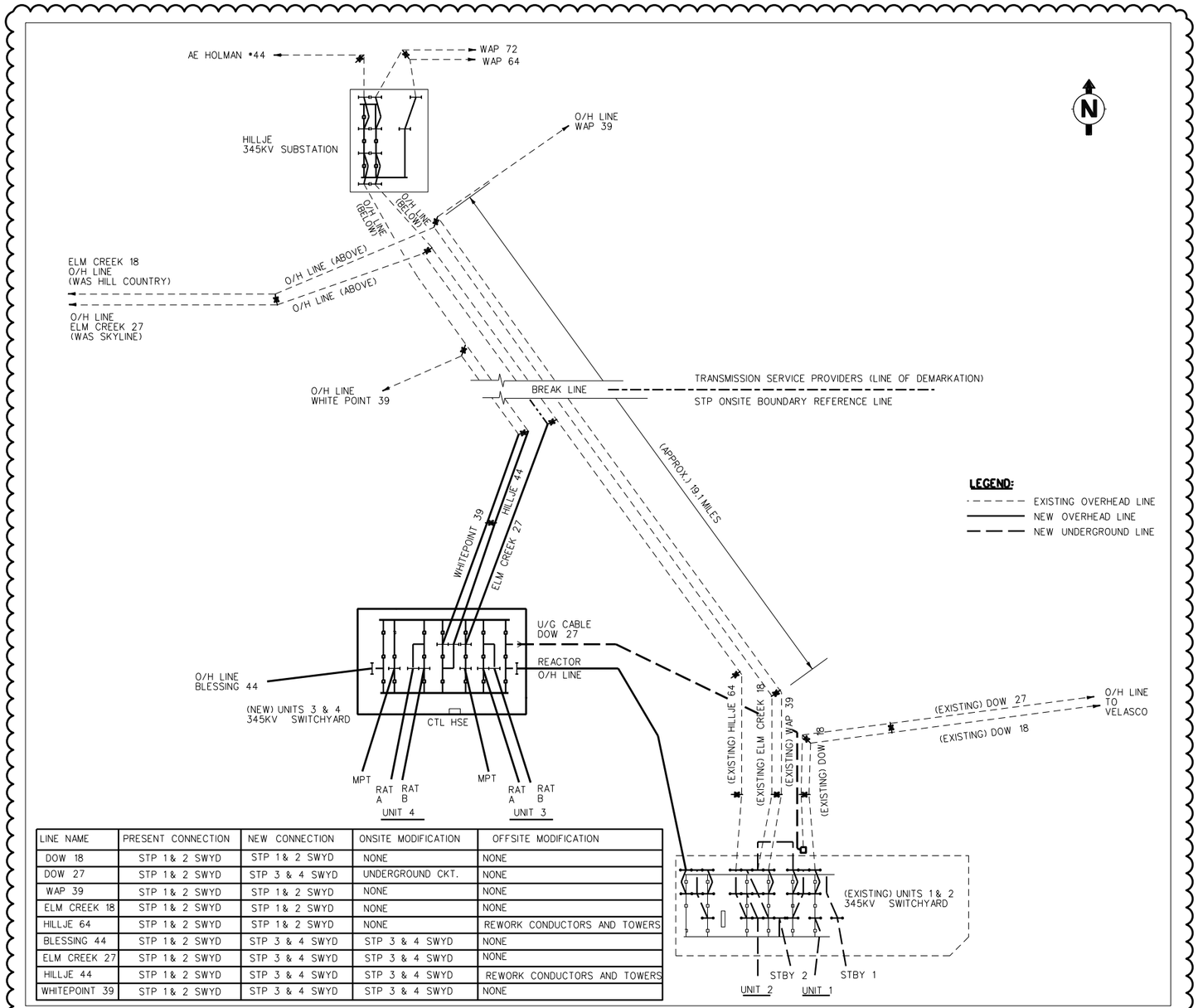


Figure 8.2-5 – 345 kV Transmission Configuration Map



LINE NAME	PRESENT CONNECTION	NEW CONNECTION	ONSITE MODIFICATION	OFFSITE MODIFICATION
DOW 18	STP 1& 2 SWYD	STP 1& 2 SWYD	NONE	NONE
DOW 27	STP 1& 2 SWYD	STP 3 & 4 SWYD	UNDERGROUND CKT.	NONE
WAP 39	STP 1& 2 SWYD	STP 1& 2 SWYD	NONE	NONE
ELM CREEK 18	STP 1& 2 SWYD	STP 1& 2 SWYD	NONE	NONE
HILLJE 64	STP 1& 2 SWYD	STP 1& 2 SWYD	NONE	REWORK CONDUCTORS AND TOWERS
BLESSING 44	STP 1& 2 SWYD	STP 3 & 4 SWYD	STP 3 & 4 SWYD	NONE
ELM CREEK 27	STP 1& 2 SWYD	STP 3 & 4 SWYD	STP 3 & 4 SWYD	NONE
HILLJE 44	STP 1& 2 SWYD	STP 3 & 4 SWYD	STP 3 & 4 SWYD	REWORK CONDUCTORS AND TOWERS
WHITEPOINT 39	STP 1& 2 SWYD	STP 3 & 4 SWYD	STP 3 & 4 SWYD	NONE

FIGURE 8.2-6 TOPOGRAPHIC MAP OF 345 kV TRANSMISSION LINE (BLESSING SE LINE)

Figure 8.2-6 – Topographic Map of 345 kV Transmission Line (Blessing SE Line)

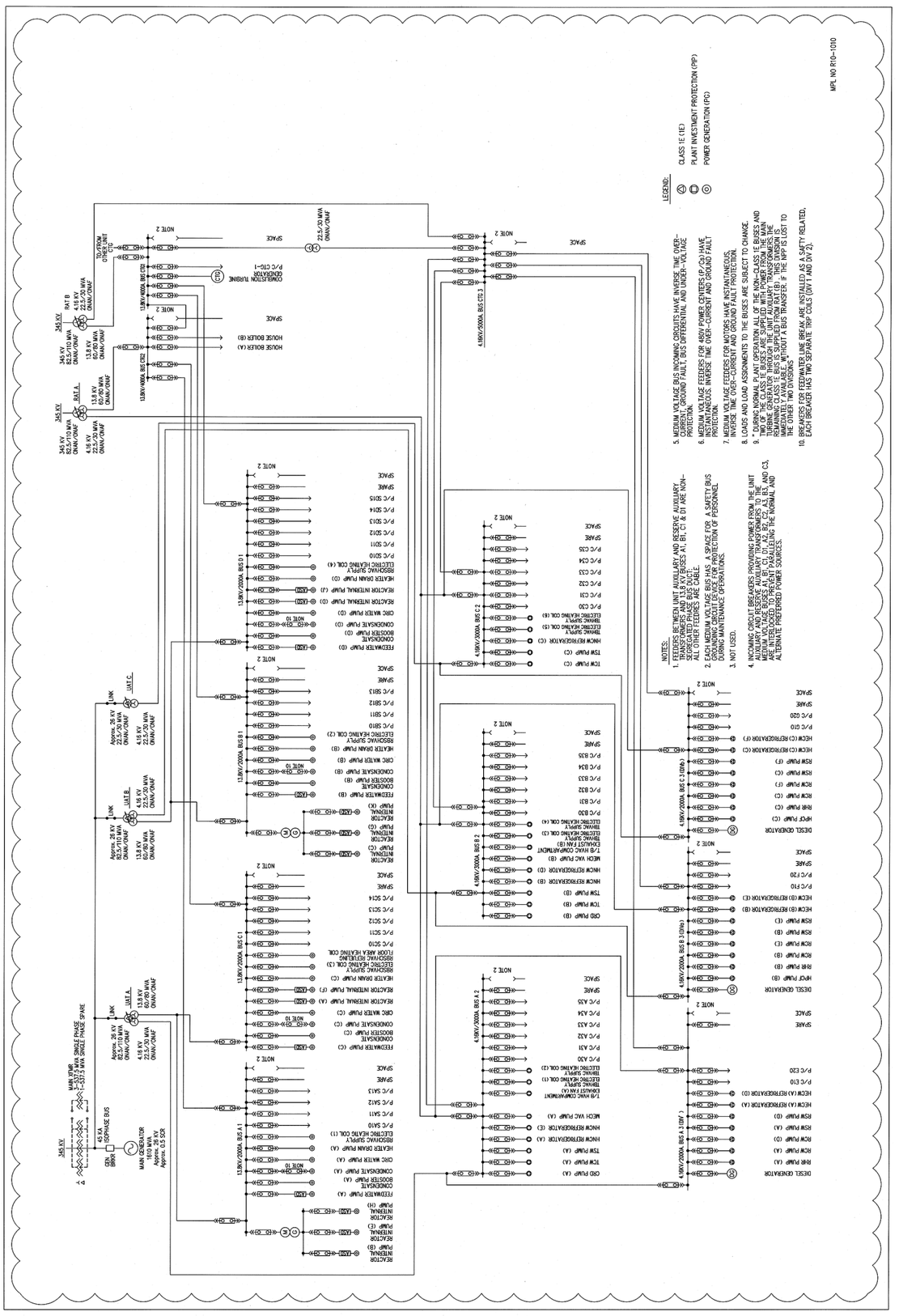
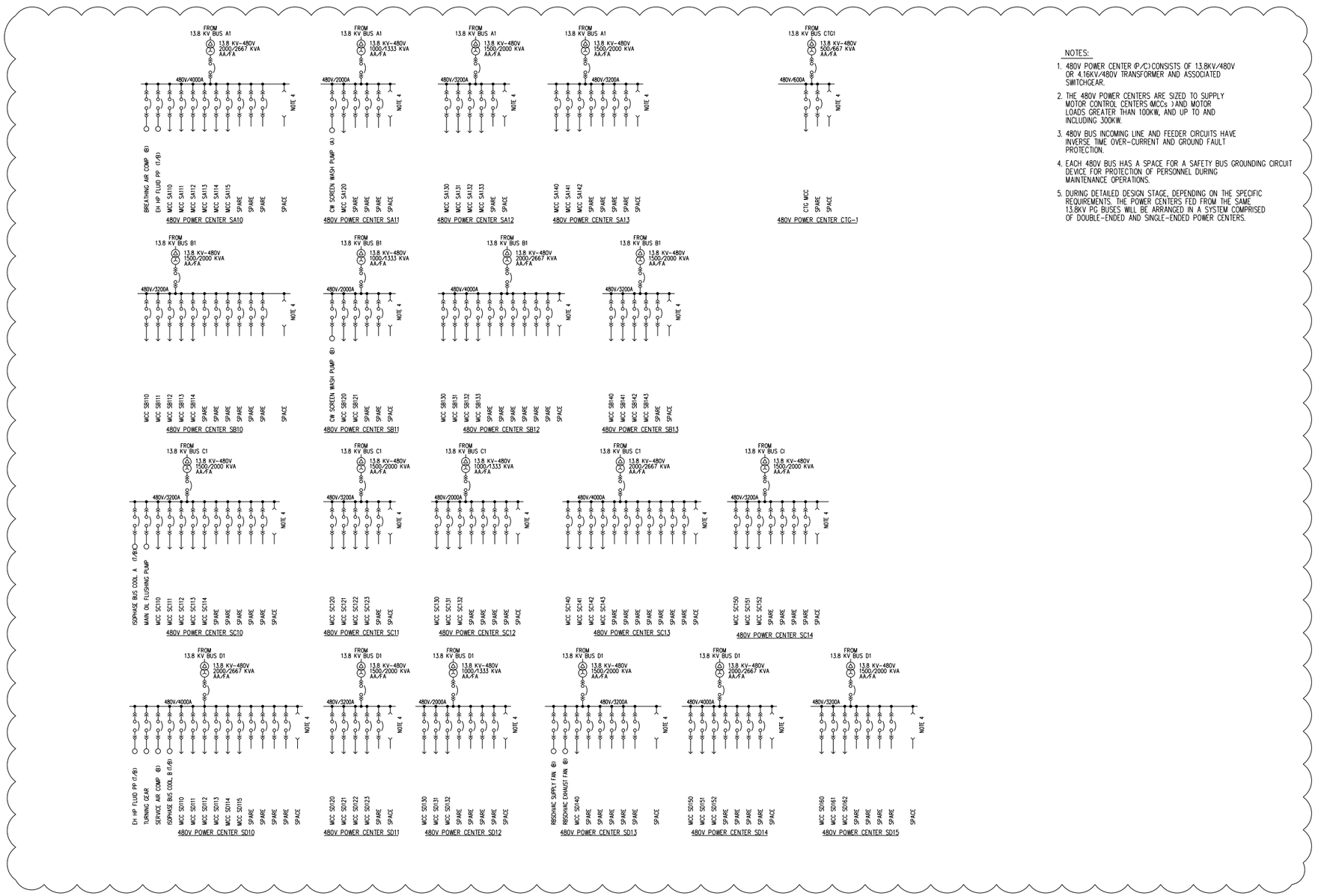


Figure 8.3-1 – Electrical Power Distribution System Single Line Diagram (Sheet 1 of 4)



NOTES:

1. 480V POWER CENTER (P/C) CONSISTS OF 13.8KV/480V OR 4.16KV/480V TRANSFORMER AND ASSOCIATED SWITCHGEAR.
2. THE 480V POWER CENTERS ARE SIZED TO SUPPLY MOTOR CONTROL CENTERS (MCCs) AND MOTOR LOADS GREATER THAN 100KW, AND UP TO AND INCLUDING 300KW.
3. 480V BUS INCOMING LINE AND FEEDER CIRCUITS HAVE INVERSE TIME OVER-CURRENT AND GROUND FAULT PROTECTION.
4. EACH 480V BUS HAS A SPACE FOR A SAFETY BUS GROUNDING CIRCUIT DEVICE FOR PROTECTION OF PERSONNEL DURING MAINTENANCE OPERATIONS.
5. DURING DETAILED DESIGN STAGE, DEPENDING ON THE SPECIFIC REQUIREMENTS, THE POWER CENTERS FED FROM THE SAME 13.8KV PG BUSES WILL BE ARRANGED IN A SYSTEM COMPRISED OF DOUBLE-ENDED AND SINGLE-ENDED POWER CENTERS.

Figure 8.3-1 – Electrical Power Distribution System Single Line Diagram (Sheet 2 of 4)

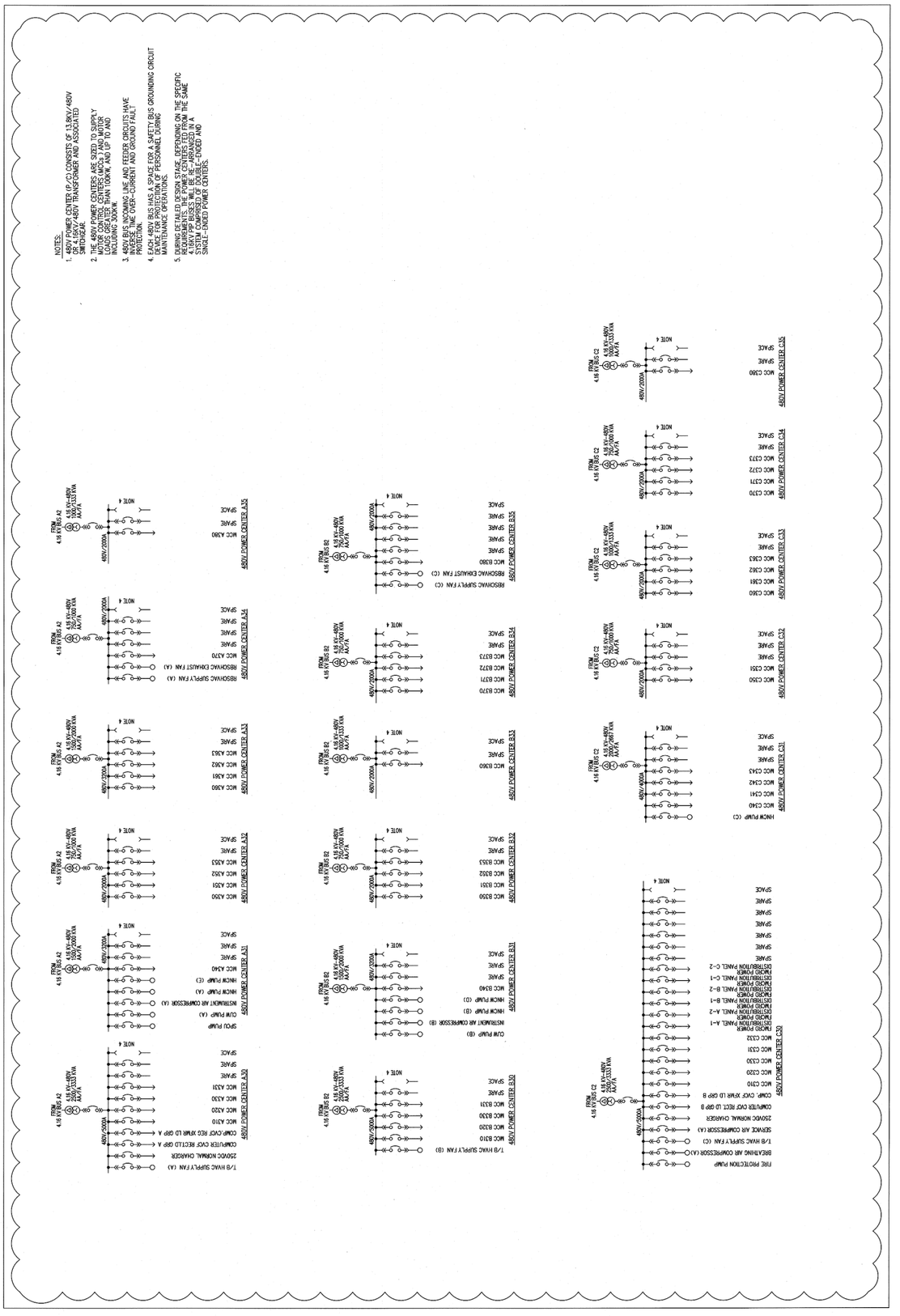


Figure 8.3-1 – Electrical Power Distribution System Single Line Diagram (Sheet 3 of 4)

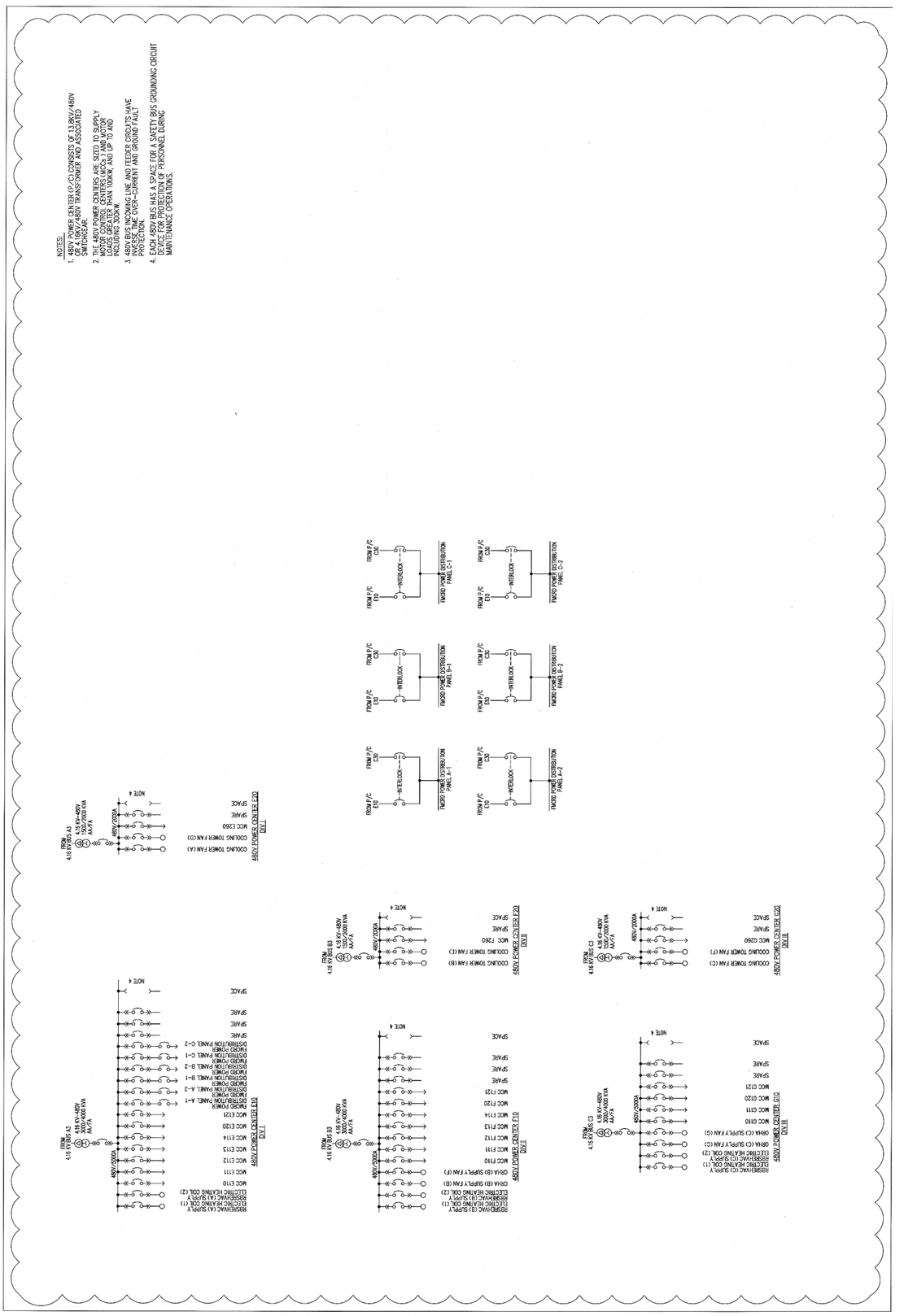


Figure 8.3-1 – Electrical Power Distribution System Single Line Diagram (Sheet 4 of 4)

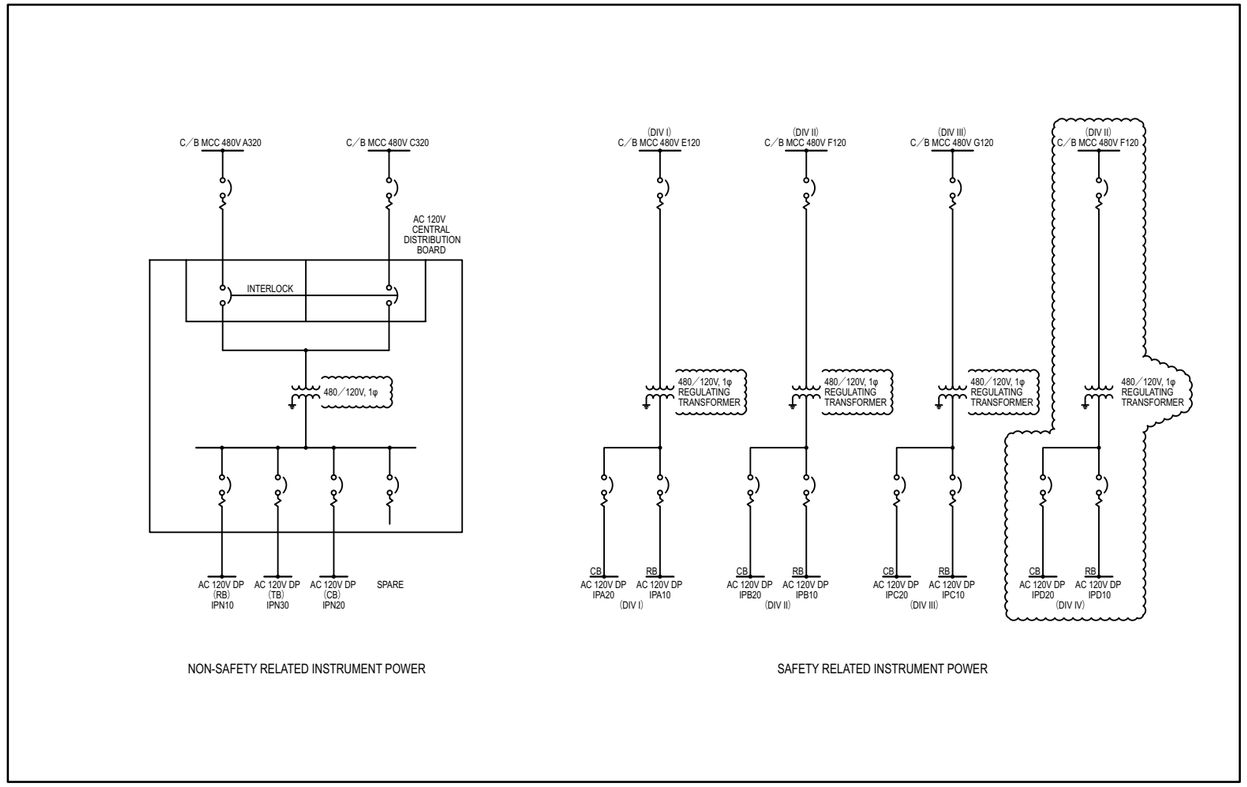


Figure 8.3-2 – Instrument and Control Power Supply System Single Line Diagram (Sheet 1 of 1)