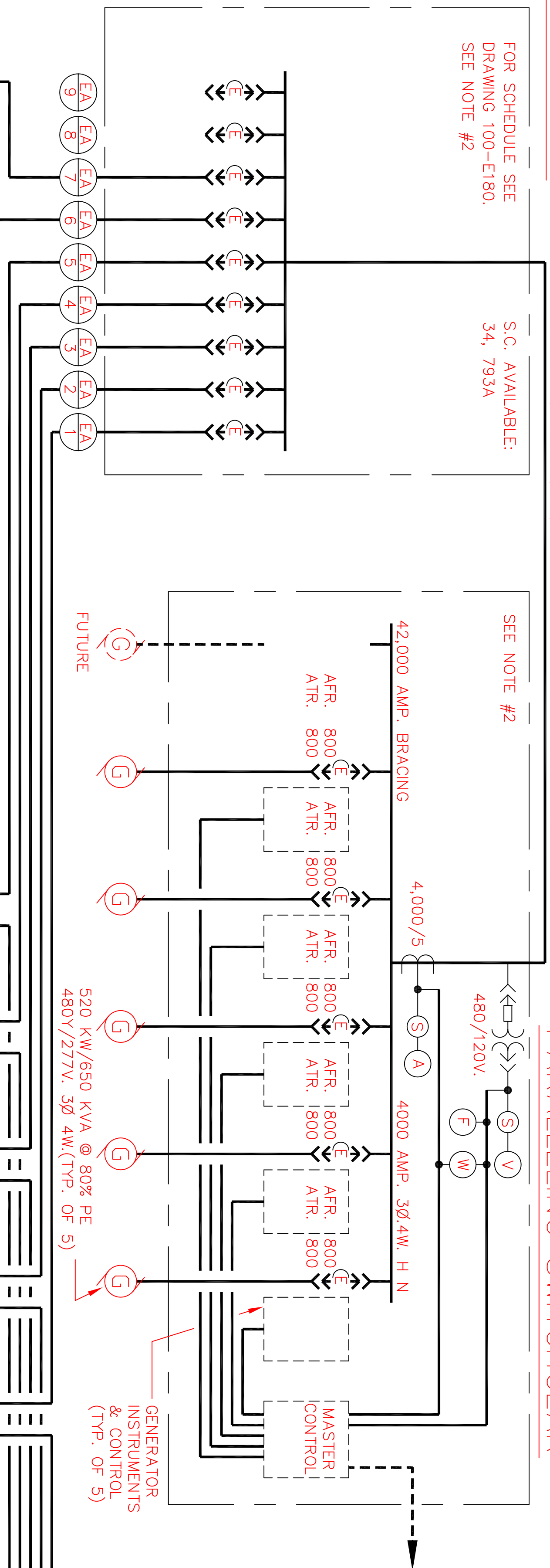
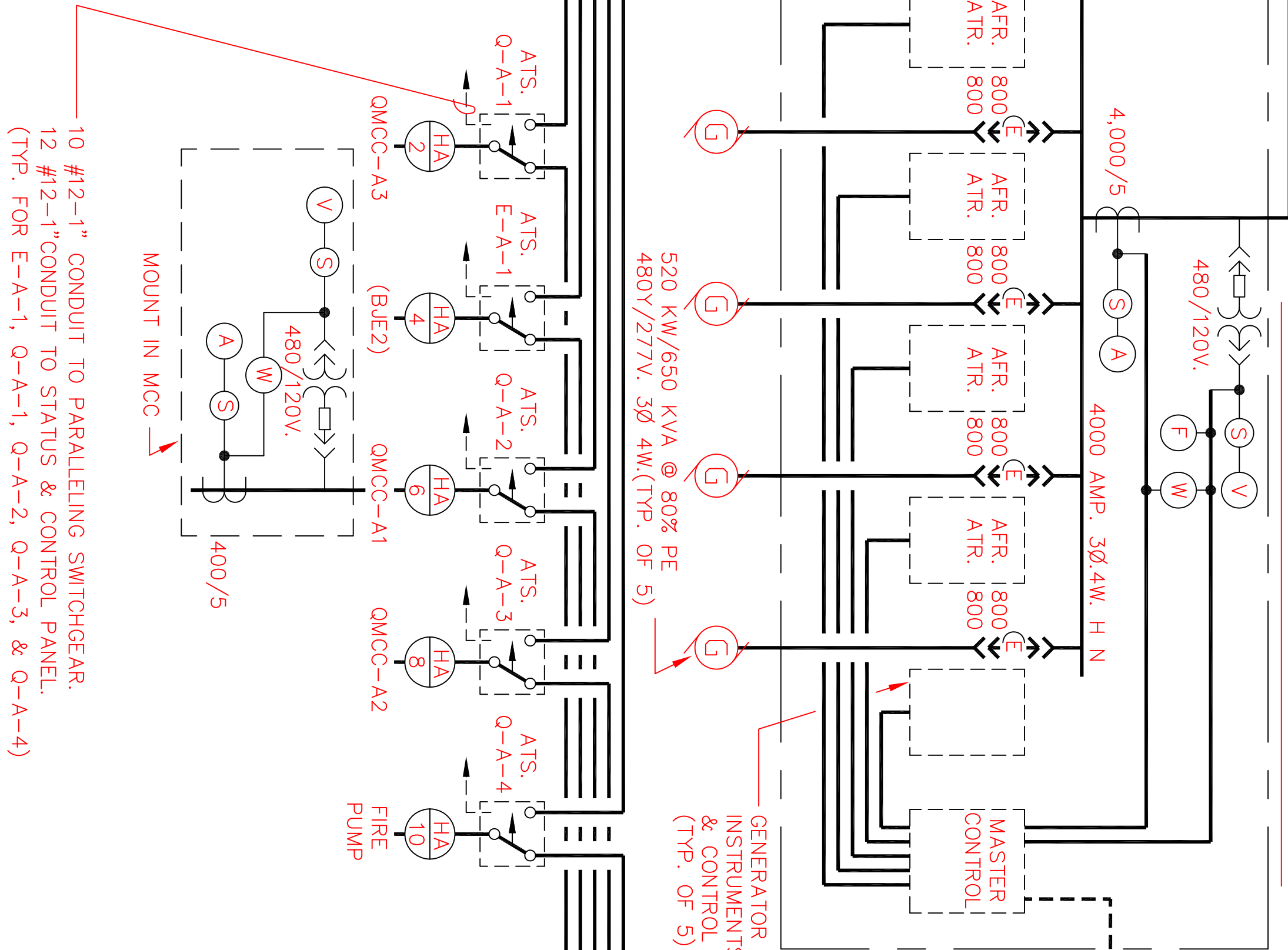


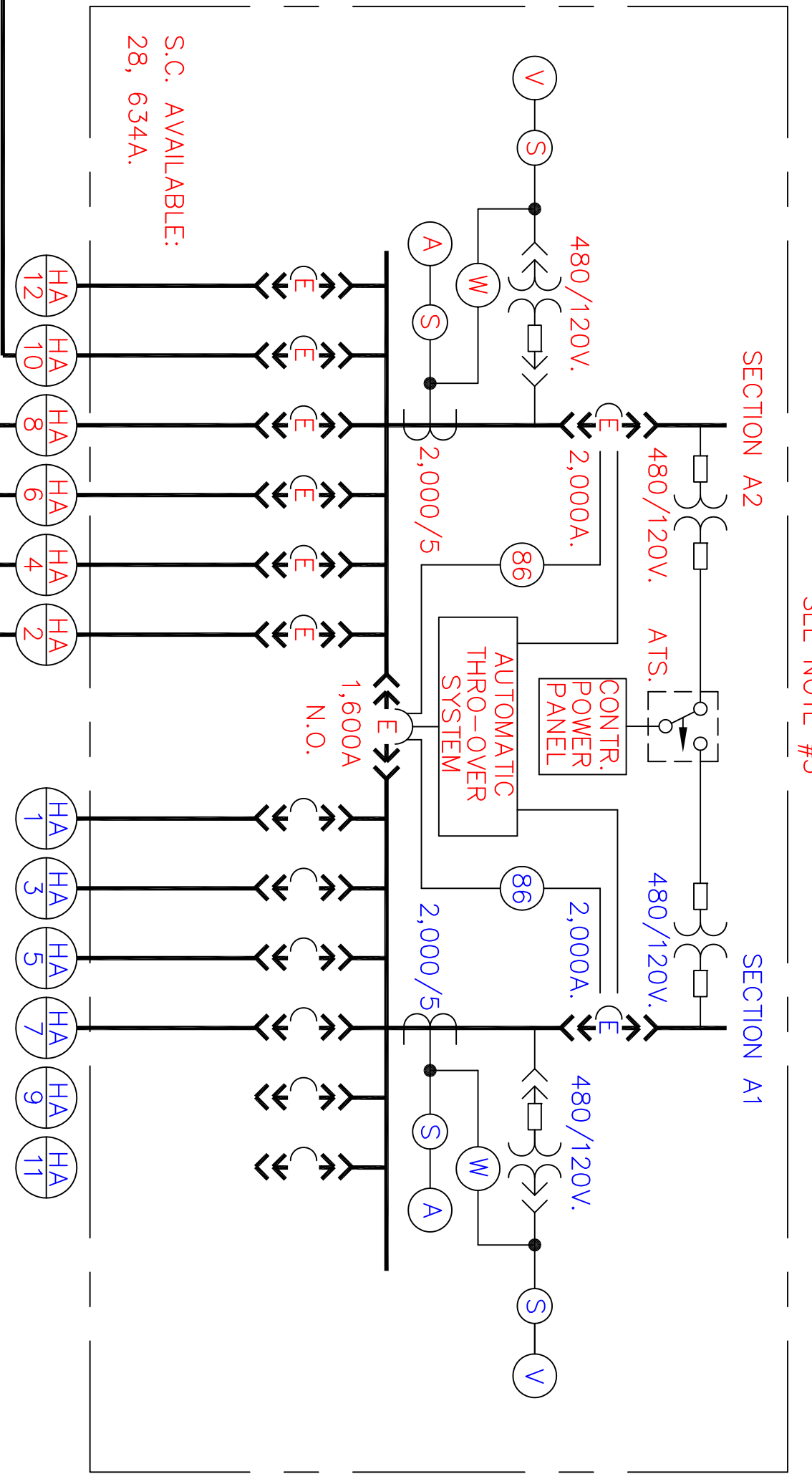
ESSENTIAL POWER SWITCHGEAR A



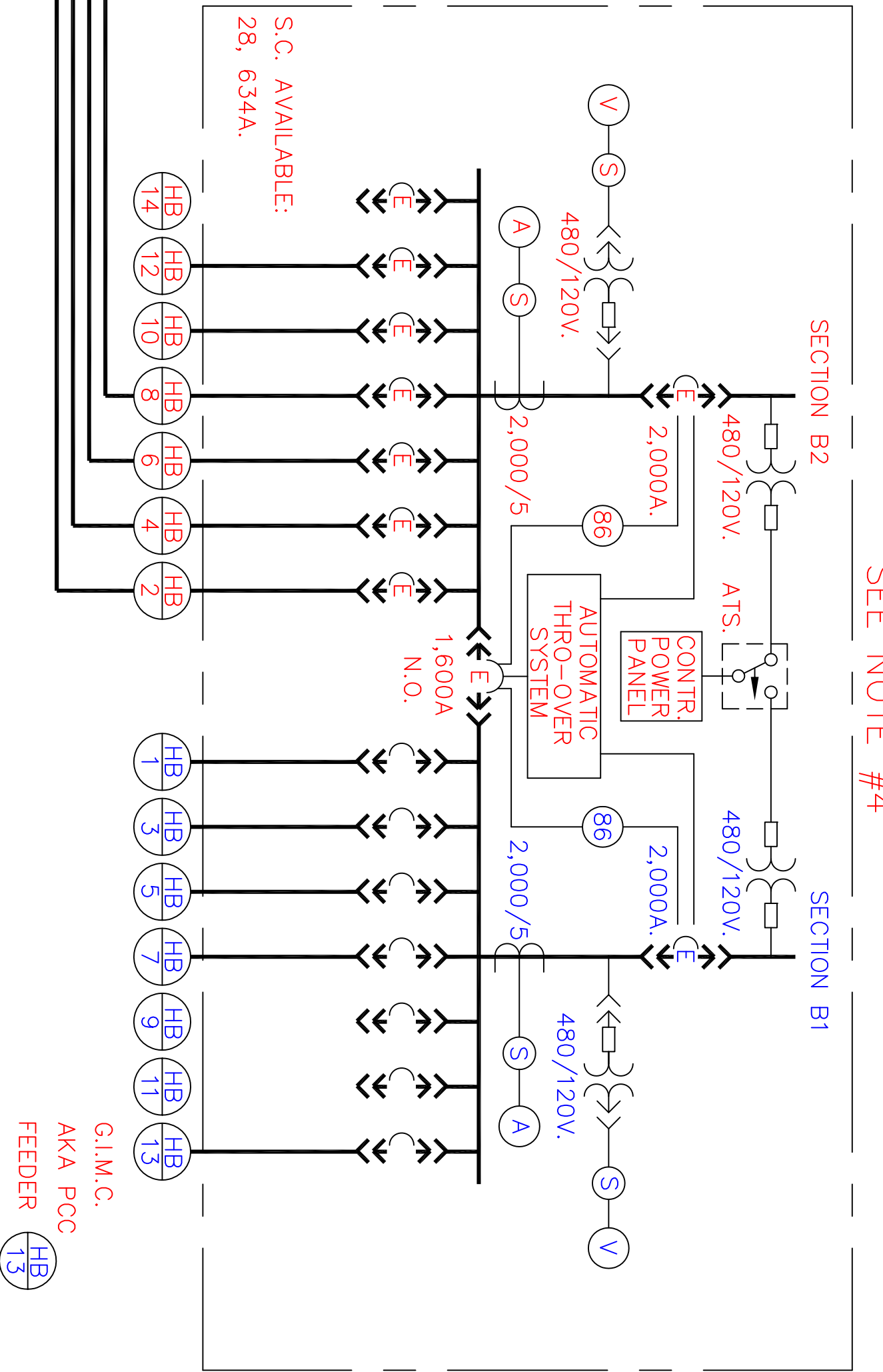
ESSENTIAL POWER PARALLELING SWITCHGEAR



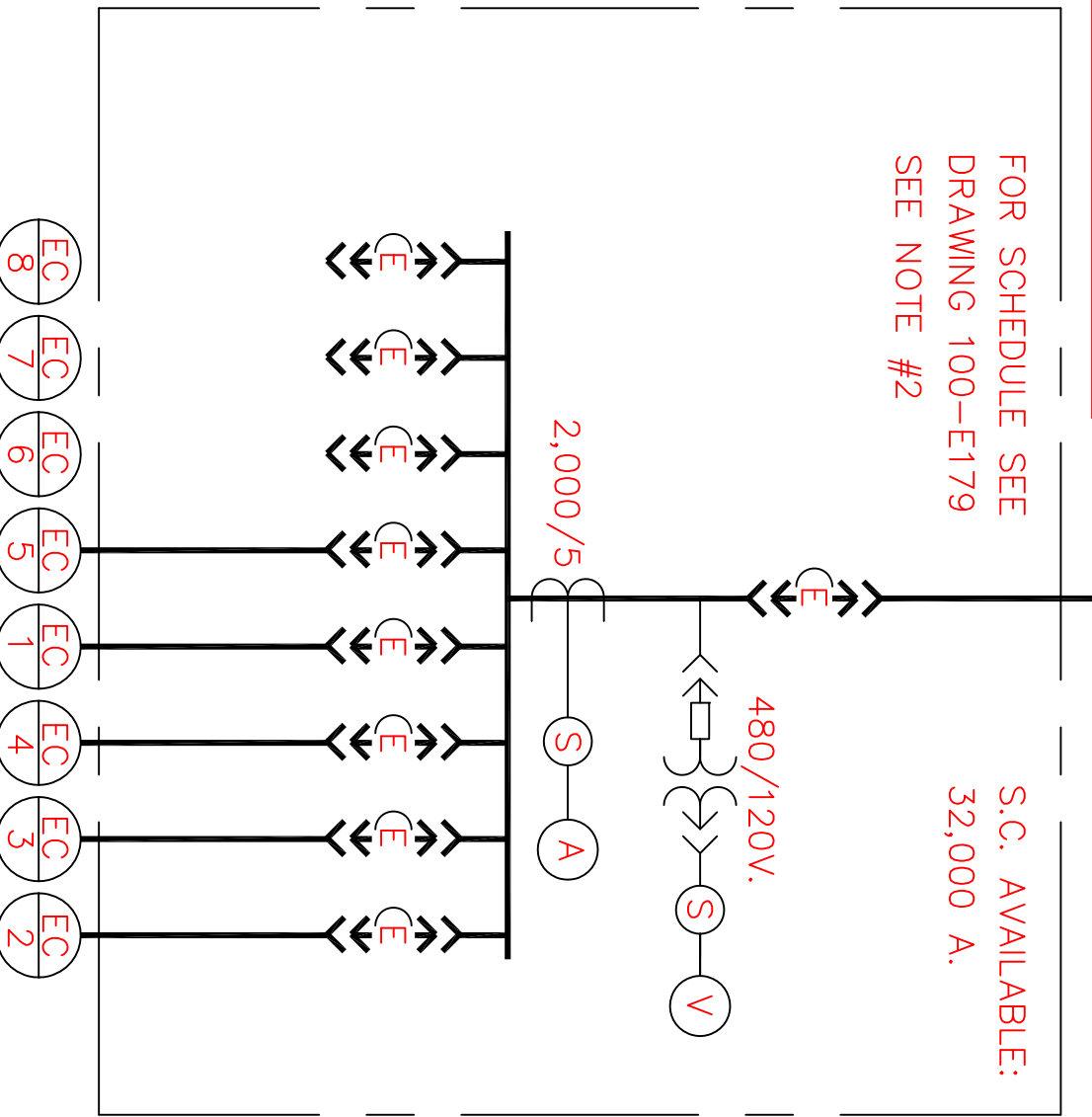
UNIT SUBSTATION A



UNIT SUBSTATION B



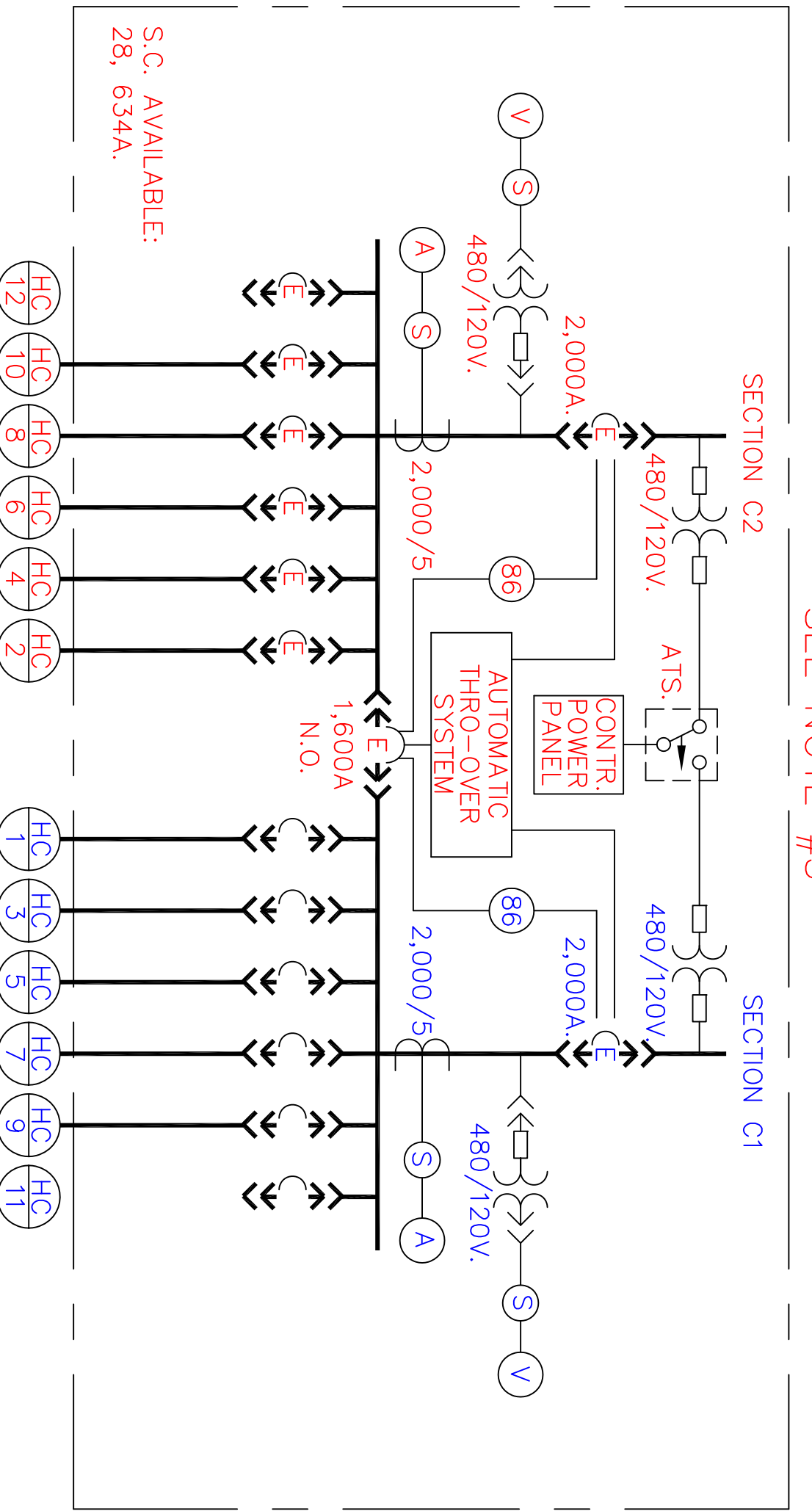
ESSENTIAL POWER SWITCHGEAR C



AUTOMATIC TRANSFER SWITCH SCHEDULE

PRIORITY	SYSTEM	SERVING	DESIGNATION	AMP.	P.	VOLTAGE	MIN.S.C.A.
1	LIFE	BU22	E-A-1	400	3	480	35,000
3	SAFETY	EDPB	E-B-1	400	4	480V/277	27,000
4	LIFE	EDPC	E-C-1	400	4	480V/277	32,000
5	SUPPORT	4G22	C-C-1	400	3	480	27,000
6	FIRE PUMP	4G22	C-C-1	400	3	480	35,000
7		OMCC-A3	Q-A-4	400	3	480	35,000
8		P4D0R4	Q-B-2	600	3	480	27,000
9		OMCC-C1	Q-C-2	800	3	480	32,000
10	ESSENTIAL EQUIPMENT	PBOC4	Q-C-3	800	3	480	32,000
11		OMCC-A2	Q-A-3	600	3	480	35,000
12		OMCC-A1	Q-A-2	400	3	480	35,000
13		QDPB	Q-C-1	400	4	480V/277	32,000
14		QDPB	Q-B-1	600	4	480V/277	27,000

UNIT SUBSTATION C



NOTES:

- FOR POWER DISTRIBUTION RISER DIAGRAMS SEE DRAWINGS 100-E173 THRU 100-E176.
- 125V D.C. POWER FOR OPERATION OF CIRCUIT BREAKERS, OBTAINED BY BATTERIES.
- FOR CONTINUATION, SEE DRAWING 100-E171.
- FOR CONTINUATION, SEE DRAWING 100-E171.
- FOR CONTINUATION, SEE DRAWING 100-E171.
- FOR CONTINUATION, SEE DRAWING 100-E171.
- ALL CIRCUIT BREAKERS IN UNIT SUBSTATIONS AND ESSENTIAL POWER SWITCHGEARS SHALL HAVE 3 LEVEL GROUND FAULT PROTECTION.

SEQUENCE OF OPERATION

- NORMAL CONDITION:
- NORMAL VOLTAGE ON BOTH SERVICE FEEDERS
 - BOTH MAIN BREAKERS CLOSED.
 - BUS THE BREAKER OPEN.
 - NORMAL VOLTAGE ON ONE (1) SERVICE FEEDER, LOSS OF VOLTAGE ON OTHER.
 - BREAKER ON SERVICE FEEDER WHERE THERE HAS BEEN LOSS OF VOLTAGE, SHALL TRIP AFTER AN ADJUSTABLE TIME DELAY OF 1 TO 10 SECONDS.
 - BUS THE BREAKER SHALL CLOSE IMMEDIATELY THEREAFTER.
- EMERGENCY CONDITION:
- LOSS OF VOLTAGE ON BOTH SERVICE FEEDERS SIMULTANEOUSLY.
 - THE MAIN BREAKERS SHALL TRIP AND THE BUS THE BREAKER SHALL NOT CLOSE.
 - THE TRANSFER SWITCHES SHALL TRANSFER TO THE EMERGENCY POSITION.
 - EMERGENCY GENERATORS SHALL BE STARTED IN SEQUENCE OF PRIORITY, AND SERVE THE LOAD.
- RETURN TO NORMAL POWER SOURCE:
- A. SOURCE RETURN TO THE NORMAL POWER SOURCE AND AFTER AN ADJUSTABLE PERIOD 1 TO 30 MINUTES, THE EMERGENCY LOADS SHALL BE RETRANSFERRED TO THE NORMAL POWER SOURCE.
 - B. EMERGENCY GENERATORS SHALL BE DISCONNECTED, ENGINES SHALL RUN FOR AN ADJUSTABLE PERIOD OF TIME, UP TO 15 MINUTES MAXIMUM FOR COOL DOWN, AND THEN SHUT DOWN.

SCALE: NONE