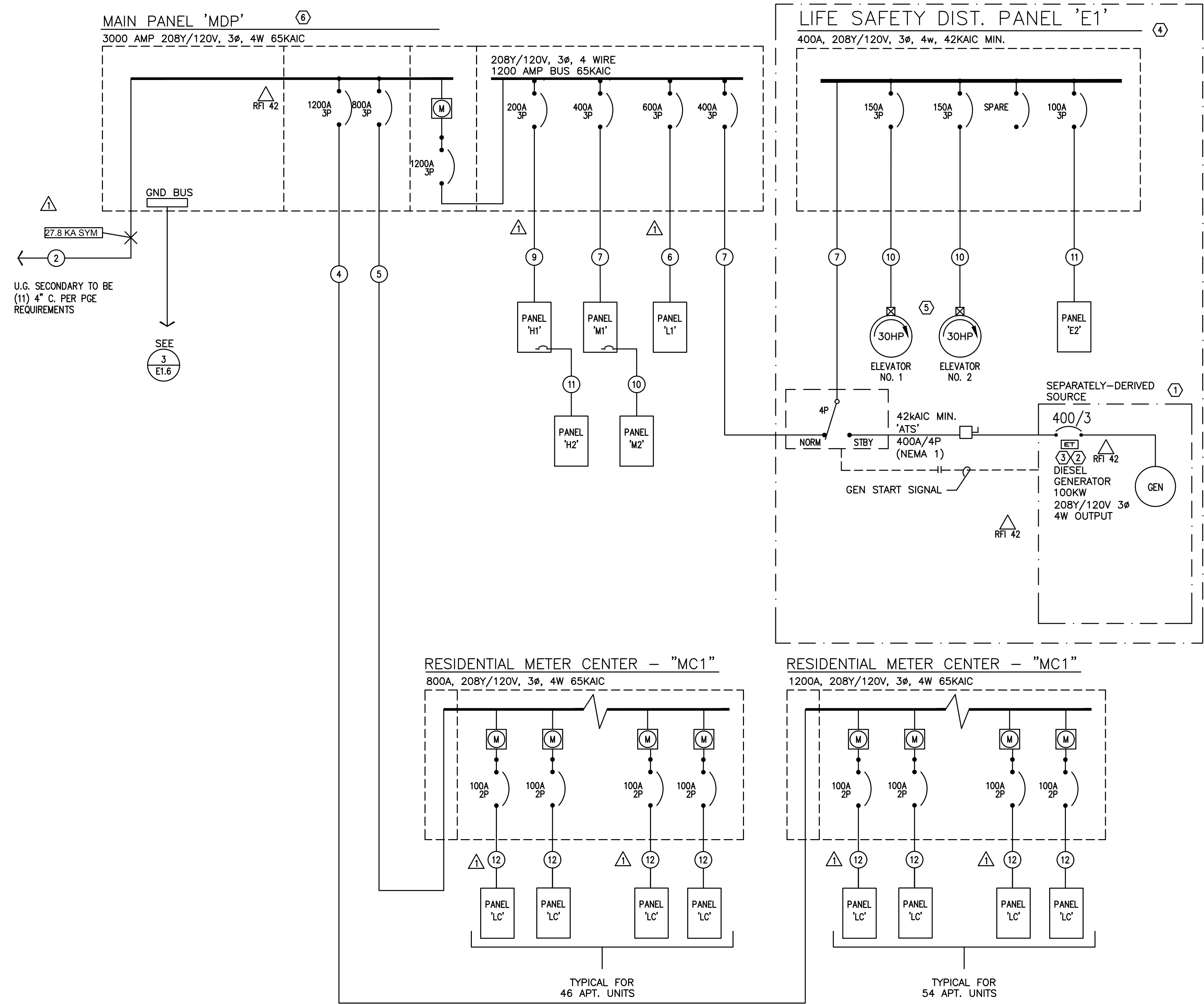




1 ELECTRICAL ONE-LINE DIAGRAM
E1.11 120/208V, 3 ϕ , 4 WIRE

ONE-LINE GENERAL NOTES:

- A. COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT & CONDUCTORS, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
- B. COORDINATE METERING REQUIREMENTS WITH UTILITY.
- C. FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.

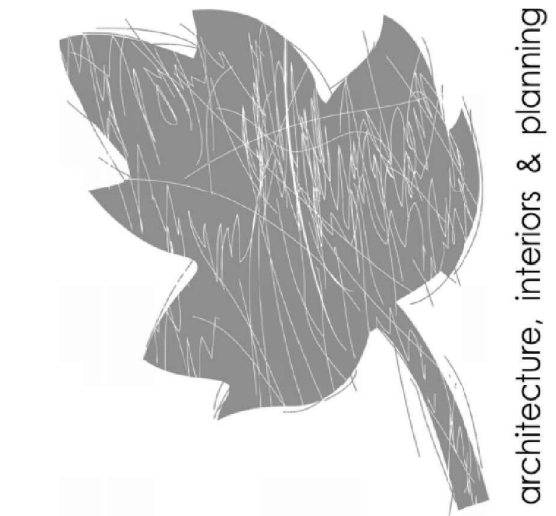
ONE-LINE NOTES:

1. PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.
2. PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER. EXACT BREAKER TYPE, SETTINGS, ETC. TO BE VERIFIED AND AS DETERMINED BY SELECTIVE COORDINATION STUDY AS PERFORMED BY THE ELECTRICAL DISTRIBUTION EQUIPMENT MANUFACTURER.
3. COORDINATE INSTALLATION OF OUTPUT BREAKER WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.
4. 'LIFE SAFETY' BRANCH TO MEET ALL REQUIREMENTS OF NEC 700. CONTRACTOR SHALL BE AWARE THAT MFIA HAS ATTEMPTED TO INDICATE EQUIPMENT AND SIZES THAT WILL SELECTIVELY COORDINATE, BUT WILL NOT BE KNOWN UNTIL ELECTRICAL EQUIPMENT MANUFACTURER PERFORMS THE REQUIRED POWER STUDIES AS SPECIFIED IN 26 05 73. CHANGES MAY BE NECESSARY AFTER THE BID.
5. GENERATOR SIZED TO OPERATE ONLY ONE ELEVATOR AT A TIME. COORDINATE WITH ELEVATOR PROVIDER FOR AUTOMATIC SEQUENTIAL OPERATION AS REQUIRED UNDER ASME A17.1, SECTION 2.27.2.1 THROUGH 2.27.2.5.
6. PER PGE, THE ELECTRICAL SERVICE ENTRANCE GEAR IS TO BE PROVIDED WITH A PLACARD TO STATE: "2000A MAX. AVAILABLE BY PGE".

FEEDER SCHEDULE (COPPER)					
NO.	AMPS	CONDUIT	CONDUCTOR		
1		*(2) 4"	PER UTILITY CO. REQ.	& (1)	GND
2		*(5) 4"	PER UTILITY CO. REQ.	& (1)	GND
3	2000A	*(5) 4"	ea w/ (4) #600Kcmil	& (1) #250Kcmil	GND
4	1200A	*(3) 4"	ea w/ (4) #600Kcmil	& (1) #3/0	GND
5	800A	*(2) 4"	ea w/ (4) #600Kcmil	& (1) #1/0	GND
6	600A	*(2) 3"	ea w/ (4) #350Kcmil	& (1) #1	GND
7	400A	3 1/2"	(4) #500Kcmil	& (1) #3	GND
8	250A	2 1/2"	(4) #250Kcmil	& (1) #4	GND
9	200A	2"	(4) #3/0	& (1) #6	GND
10	150A	2"	(4) #1/0	& (1) #6	GND
11	100A	1 1/2"	(4) #1	& (1) #8	GND
12	100A	1 1/2"	(3) #1	& (1) #8	GND

* PARALLEL FEEDER

- NOTES:
1. REFER TO THE UTILITY PROVIDER'S DESIGN AND INCOMING SERVICE DIVISION OF RESPONSIBILITIES FOR ADDITIONAL INFORMATION.
2. USE OF ALUMINUM FEEDERS SHALL BE AS ALLOWED BY THE NEC.
3. ALUMINUM CONDUCTORS MAY BE USED IN LIEU OF COPPER FOR SECONDARY FEEDERS.
4. ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS OVER 100A.
5. REFER TO DIVISION 26 SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING FEEDER AND BRANCH CIRCUIT CONDUCTORS.



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PERMIT SET

PROJECT #:

1617.00

SHEET ISSUE DATE:

01/31/2020

REVISIONS:

#	DESCRIPTION	DATE
1	COUNTY REVIEW RESPONSES	10.09.2020
2	ADDENDUM #1	10.09.2020
	ASI #01	03.05.2021
	RFI 62	07.20.2021
	RFI 68	08.10.2021
	RFI 92	09.10.2021
	RFI 42	09.30.2021
15	ASI #10	11.05.2021
	RFI 148	11.18.2021
	RFI 150	11.18.2021
	RFI 154	11.18.2021
	RFI 155	11.18.2021
17	ASI #12	12.06.2021
	RFI 170	12.06.2021

ELECTRICAL ONE-LINE
& SCHEDULES
E1.11