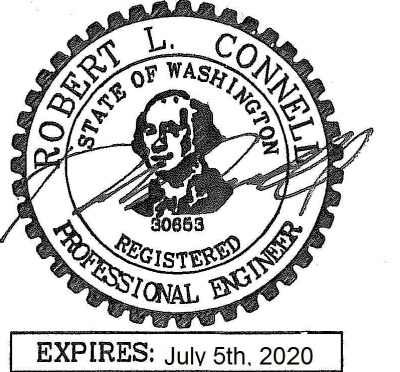
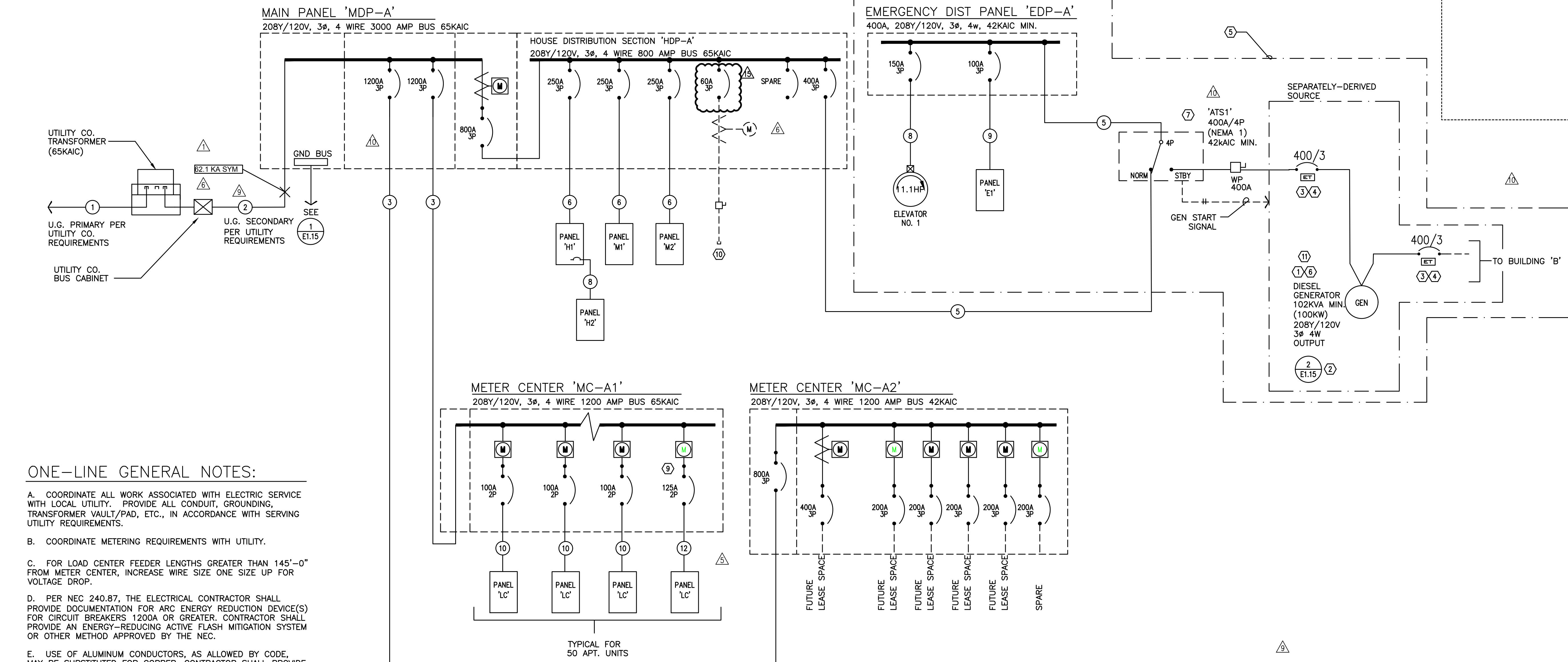


IN THE EVENT CONFLICTS ARE DISCOVERED
BETWEEN THE ORIGINAL SIGNED AND SEALED
DOCUMENTS PREPARED BY THE ARCHITECTS
AND/OR THEIR CONSULTANTS, AND ANY COPY OF
THE DOCUMENTS TRANSMITTED BY MAIL, FAX,
ELECTRONICALLY OR OTHERWISE, THE ORIGINAL
SIGNED AND SEALED DOCUMENTS SHALL GOVERN.PROJECT # 2017-053
DATE: 11/06/2019
REVISIONS

- PLAN REVIEW 01.24.2020
- PLAN REVIEW 03.13.2020
- PLAN REVIEW 04.24.2020
- PLAN REVIEW 08.10.2020
- PLAN REVIEW 09.17.2020
- PLAN REVIEW 10.16.2020
- PLAN REVIEW 11.25.2020
- PLAN REVIEW 03.26.2021
- PLAN REVIEW 07.15.2021
- COORDINATION 08.27.2021
- COORDINATION 11.05.2021
- COORDINATION 12.10.2021
- COORDINATION 03.03.2022



ONE-LINE GENERAL NOTES:

- COORDINATE ALL WORK ASSOCIATED WITH ELECTRIC SERVICE WITH LOCAL UTILITY. PROVIDE ALL CONDUIT, GROUNDING, TRANSFORMER VAULT/PAD, ETC., IN ACCORDANCE WITH SERVING UTILITY REQUIREMENTS.
- COORDINATE METERING REQUIREMENTS WITH UTILITY.
- FOR LOAD CENTER FEEDER LENGTHS GREATER THAN 145'-0" FROM METER CENTER, INCREASE WIRE SIZE ONE SIZE UP FOR VOLTAGE DROP.
- PER NEC 240.87, THE ELECTRICAL CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR ARC ENERGY REDUCTION DEVICE(S) FOR CIRCUIT BREAKERS 1200A OR GREATER. CONTRACTOR SHALL PROVIDE AN ENERGY-REDUCING ACTIVE FLASH MITIGATION SYSTEM OR OTHER METHOD APPROVED BY THE NEC.
- USE OF ALUMINUM CONDUCTORS, AS ALLOWED BY CODE, MAY BE SUBSTITUTED FOR COPPER. CONTRACTOR SHALL PROVIDE WRITTEN SUBSTITUTION REQUEST DEMONSTRATING THE THAT THE PROPOSED PRODUCT IS EQUIVALENT TO COPPER IN ALL ASPECTS.
- "SOLAR READY" WORK FOR FUTURE PHOTOVOLTAIC ARRAY SHALL BE PER THE ELECTRICAL REQUIREMENTS AS DEFINED BY THE WASHINGTON STATE ADMINISTRATION CODE, TITLE 51, CHAPTER 51, SECTION 60106.

ONE-LINE NOTES:

- ESTIMATED GENERATOR STARTING LOAD IS BASED ON THE ELEVATOR & FIRE PUMP MOTORS BEING PROVIDED WITH REDUCED STARTING.
- PROVIDE GROUND FOR SEPARATELY DERIVED SYSTEM PER NEC.
- 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.
- COORDINATE INSTALLATION OF OUTPUT BREAKERS WITH GENERATOR MANUFACTURER TO SELECTIVELY COORDINATE WITH POWER STUDY RECOMMENDATIONS.
- "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.
- GENERATOR IS SIZED TO OPERATE ONLY ONE ELEVATOR AT A TIME. COORDINATE WITH ELEVATOR & GENERATOR PROVIDERS FOR AUTOMATIC SEQUENTIAL OPERATION AS REQUIRED UNDER ASME A17.1, SECTION 2.27.2.1 THROUGH 2.27.2.5.
- THE AUTOMATIC TRANSFER SWITCH FOR THE EMERGENCY PANEL "EDP" SHALL OPERATE SUCH THAT THE EGRESS LOADS ARE SWITCHED TO GENERATOR POWER WITHIN 10 SECONDS AND THE ELEVATOR(S) SWITCHED WITHIN 60 SECONDS OF A POWER FAILURE.
- CONSULT MECHANICAL, PLUMBING AND/OR FIRE ALARM PLANS AND VERIFY EXACT POWER REQUIREMENTS FOR THE FIRE PUMP.
- TWO BEDROOM APARTMENT UNITS SHALL HAVE 125A LOAD CENTERS. REFER TO THE TYPICAL DWELLING UNIT CALCULATIONS ON SHEET E1.17 FOR MORE INFORMATION.
- PROVIDE BREAKER AND DISCONNECT SWITCH FOR FUTURE PV SOLAR SYSTEM TO BE PROVIDED AND INSTALLED BY OTHERS.
- VENDOR TO PROVIDE GENERATOR SIZING BASED ON THE LOAD INFORMATION PROVIDED AND SUBMIT SIZING REPORT FOR APPROVAL.

BUILDING 'A'
ELECTRICAL ONE-LINE DIAGRAM
208/120v, 3ph, 4w

FEEDER SCHEDULE (COPPER)

NO.	AMPS	CONDUIT	CONDUCTOR
1		*4"	PER UTILITY CO. & (1) GND
2	3000A	*(8) 4"	ea. w/ (4) #500Kcmil & (1) #3/0 GND
3	1200A	*(3) 4"	ea w/ (4) #600Kcmil & (1) #3/0 GND
4	800A	*(2) 4"	ea w/ (4) #600Kcmil & (1) #1/0 GND
5	600A	(2) 3"	(4) #350Kcmil & (1) #1 GND
6	250A	2 1/2"	(4) #250Kcmil & (1) #4 GND
7	200A	2"	(4) #3/0 & (1) #6 GND
8	150A	2"	(4) #1/0 & (1) #6 GND
9	100A	1 1/2"	(4) #1 & (1) #8 GND
10	100A	1 1/2"	(3) #1 & (1) #8 GND
11	60A	1 1/4"	(4) #4 & (1) #10 GND
12	125A	1 1/2"	(3) #1 & (1) #6 GND

* PARALLEL FEEDERS PER UTILITY PROVIDER'S DIRECTION.

NOTES:

- REFER TO THE UTILITY PROVIDER'S DESIGN AND INCOMING SERVICE DIVISION OF RESPONSIBILITIES SHOWN ON SHEET E1.01 FOR ADDITIONAL INFORMATION.
- ALUMINUM CONDUCTORS MAY BE USED IN LIEU OF COPPER FOR SECONDARY FEEDERS.
- ALUMINUM CONDUCTORS MAY BE USED FOR FEEDERS OVER 100A.
- USE OF ALUMINUM FEEDERS SHALL BE AS ALLOWED BY THE NEC.

FEEDER SCHEDULE (ALUMINUM)

NO.	AMPS	CONDUIT	CONDUCTOR
1		*4"	PER UTILITY CO. & (1) GND
2	3000A	*(8) 4"	ea. w/ (4) #600 & (1) #3/0 GND
3	1200A	*(3) 3 1/2"	ea w/ (4) #500 & (1) #3/0 GND
4	800A	*(2) 3 1/2"	ea w/ (4) #400 & (1) #1/0 GND
5	600A	(2) 2 1/2"	(4) #250 & (1) #1 GND
6	250A	2 1/2"	(4) #350 & (1) #4 GND
7	200A	2 1/2"	(4) #250 & (1) #6 GND
8	150A	2"	(4) #3/0 & (1) #6 GND
9	100A	2"	(4) #2/0 & (1) #8 GND
10	100A	1 1/4"	(3) #1 & (1) #8 GND
11	60A	1"	(3) #4 & (1) #10 GND
12	125A	1 1/2"	(3) #2/0 & (1) #6 GND

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