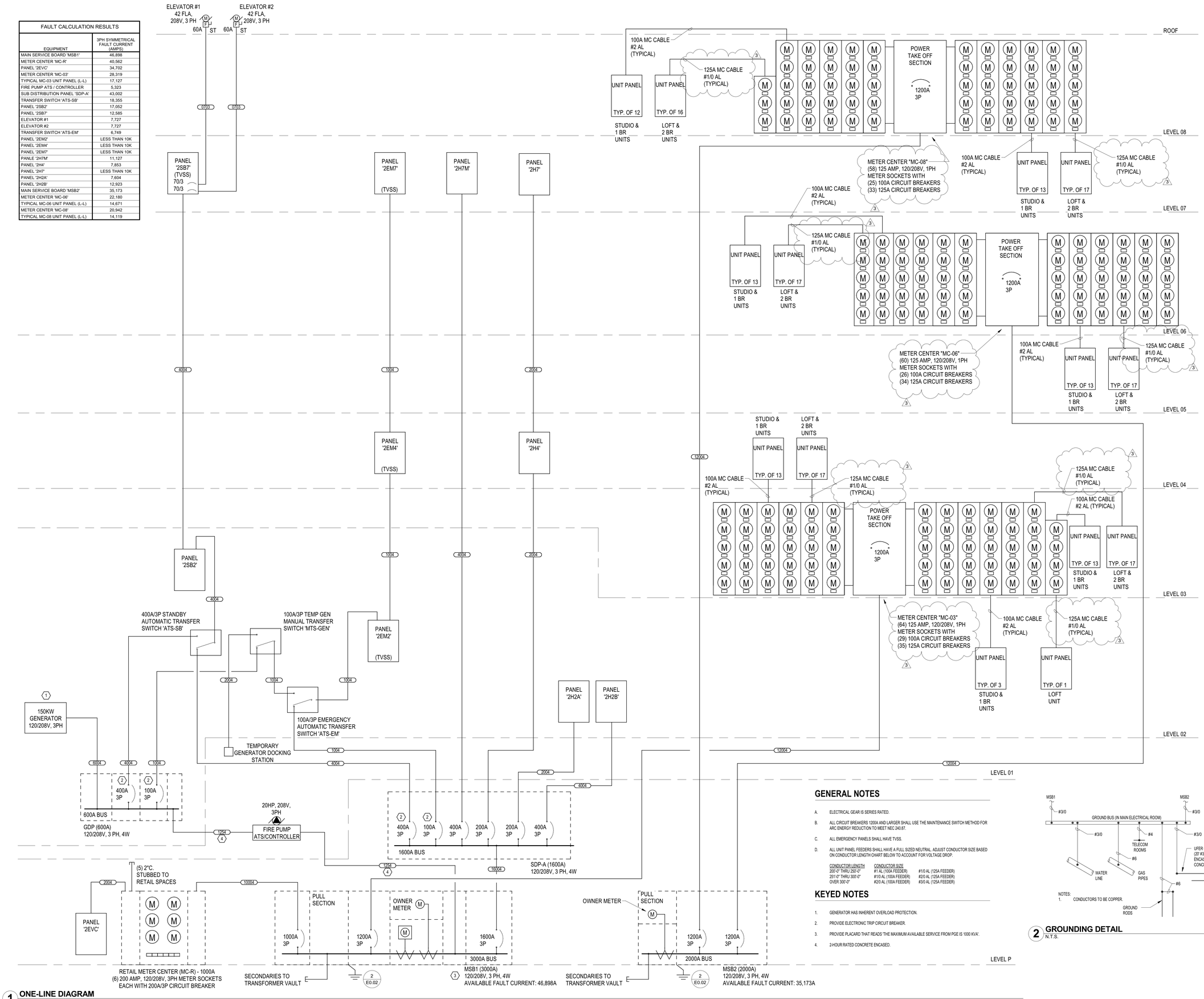
FAULT CALCULATION RESULTS	
EQUIPMENT	3PH SYMMETRICAL FAULT CURRENT (AMPS)
MAIN SERVICE BOARD 'MSB1'	46,898
METER CENTER 'MC-R'	40,562
PANEL '2EVC'	34,702
METER CENTER 'MC-03'	28,319
TYPICAL MC-03 UNIT PANEL (L-L)	17,127
FIRE PUMP ATS / CONTROLLER	5,323
SUB DISTRIBUTION PANEL 'SDP-A'	43,002
TRANSFER SWITCH 'ATS-SB'	18,355
PANEL '2SB2'	17,052
PANEL '2SB7'	12,585
ELEVATOR #1	7,727
ELEVATOR #2	7,727
TRANSFER SWITCH 'ATS-EM'	6,749
PANEL '2EM2'	LESS THAN 10K
PANEL '2EM4'	LESS THAN 10K
PANEL '2EM7'	LESS THAN 10K
PANLE '2H7M'	11,127
PANEL '2H4'	7,853
PANEL '2H7'	LESS THAN 10K
PANEL '2H2A'	7,604
PANEL '2H2B'	12,923
MAIN SERVICE BOARD 'MSB2'	35,173
METER CENTER 'MC-06'	22,180
TYPICAL MC-06 UNIT PANEL (L-L)	14,671
METER CENTER 'MC-08'	20,942
TYPICAL MC-08 UNIT PANEL (L-L)	14,119



1 **ONE-LINE DIAGRAM**
120/208V, 3 PH, 4W

GENERAL NOTES

A. ELECTRICAL GEAR IS SERIES RATED.

B. ALL CIRCUIT BREAKERS 1200A AND LARGER SHALL USE THE MAINTENANCE SWITCH METHOD FOR ARC ENERGY REDUCTION TO MEET NEC 240.87.

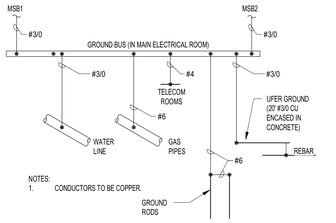
C. ALL EMERGENCY PANELS SHALL HAVE TVSS.

D. ALL UNIT PANEL FEEDERS SHALL HAVE A FULL SIZED NEUTRAL. ADJUST CONDUCTOR SIZE BASED ON CONDUCTOR LENGTH CHART BELOW TO ACCOUNT FOR VOLTAGE DROP.

CONDUCTOR LENGTH	CONDUCTOR SIZE	
200'-0" THRU 250'-0"	#1 AL (100A FEEDER)	#1/0 AL (125A FEEDER)
251'-0" THRU 300'-0"	#1/0 AL (100A FEEDER)	#2/0 AL (125A FEEDER)
OVER 300'-0"	#2/0 AL (100A FEEDER)	#3/0 AL (125A FEEDER)

KEYED NOTES

1. GENERATOR HAS INHERENT OVERLOAD PROTECTION.
2. PROVIDE ELECTRONIC TRIP CIRCUIT BREAKER.
3. PROVIDE PLACARD THAT READS 'THE MAXIMUM AVAILABLE SERVICE FROM PGE IS 1000 KVA'.
4. 2-HOUR RATED CONCRETE ENCASED.



2 **GROUNDING DETAIL**
N.T.S.

City Of Portland
REVIEWED FOR CODE COMPLIANCE
Date: 02/11/20
Project: 19-106743-REV-01-CO

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PROPRIETARY STATEMENT:
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REGISTERED PROFESSIONAL ENGINEER
OREGON
JULY 20, 1983
STEPHEN M. LOCKHART
EXPIRES 12-31-20

18TH & SALMON

GREYSTAR
1715 SW Salmon St.
Portland, OR 97205

REVISIONS

3	AB-01	09/27/2019

CHECKED BY: SL
ISSUE DATE: 27 SEP 2019
PROJECT NO: 1803002

CONSTRUCTION SET

ELECTRICAL
RISER DIAGRAM

E00.02

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