

GENERAL NOTE: (LIST OF NOTES APPLICABLE TO SHEET E2.1, E2.2 AND E2.3. NOT ALL NOTES MAY BE USED ON EACH INDIVIDUAL DRAWING)

① ADJUST CIRCUIT BREAKER AND FEEDER SIZE OF SPD, AND ALL MOTOR LOADS (HVAC, PLUMBING, PUMPS, ELEVATORS, ETC.) TO MATCH MANUFACTURER'S RECOMMENDATION AT NO ADDITIONAL COST TO THE OWNER.

NOTES: (LIST OF NOTES APPLICABLE TO SHEET E2.1, E2.2, AND E2.3. NOT ALL NOTES MAY BE USED ON EACH INDIVIDUAL DRAWING)

① COORDINATE AND VERIFY FINAL RATING OF CIRCUIT BREAKER AND DISTRIBUTION PANEL "4SCN" BUS RATING WITH CONTRACTOR PROVIDED PV DESIGN. MAKE ADJUSTMENTS AS NECESSARY AT NO ADDITIONAL COST TO OWNER.

② WHERE TWO (2) SOURCES, ONE A UTILITY AND THE OTHER A PV SYSTEM, LOCATE CIRCUIT BREAKERS AT OPPOSITE ENDS OF THE BUS BAR. A PERMANENT WARNING LABEL SHALL BE PROVIDED TO THE DISTRIBUTION EQUIPMENT ADJACENT TO THE PV CIRCUIT BREAKER THAT DISPLAYS THE FOLLOWING WORDING "WARNING PV OUTPUT CONNECTION; DO NOT RELOCATE THIS OVERCURRENT DEVICE."

③ PROVIDE ADJUSTABLE SOLID STATE ELECTRONIC TRIP CIRCUIT BREAKER WITH THE FOLLOWING FEATURES:

- LONG - TIME PICKUP
- LONG - TIME DELAY
- SHORT - TIME PICKUP
- SHORT - TIME DELAY
- INSTANTANEOUS PICK-UP

④ AUTOMATIC TRANSFER SWITCH WITH INTEGRAL MAINTENANCE ISOLATION BYPASS.

⑤ SYSTEM BONDING JUMPER.

⑥ PROVIDE RED, LOCK-ON CIRCUIT BREAKER.

⑦ BOND CT CABINET ENCLOSURE TO GROUND.

⑧ 4-4" STUBOUT. PROVISION FOR CRED BUILDING.

⑨ PROVIDE DEVICE WITH GROUND FAULT PROTECTION.

⑩ PROVIDE SUBMETER.

⑪ IN ACCORDANCE WITH NEC ARTICLE 230.2(e), PROVIDE A PERMANENT PLAQUE OR DIRECTORY AT EACH SERVICE DISCONNECT AS FOLLOWS:

• AT PANEL "4SCG":

SERVICE NO. 1 - ALL LOADS THAT ARE CONNECTED TO THE GENERATOR

SERVICE NO. 2 - LOCATED AT NMC STUDENT CENTER BUILDING ELEC (115) ROOM

• AT DISTRIBUTION SWITCHBOARD "4SCN":

SERVICE NO. 2 - ALL LOADS THAT ARE NOT CONNECTED TO THE GENERATOR

SERVICE NO. 1 - LOCATED AT NMC STUDENT CENTER BUILDING ELEC (115) ROOM

⑫ PROVIDE CURRENT LIMITING CIRCUIT BREAKER TYPE WITH CHARACTERISTICS OR EQUIVALENT TO CLASS J FUSES AS REQUIRED BY MANUFACTURER.

⑬ PROVIDE LOCKABLE TYPE CIRCUIT BREAKER AS REQUIRED BY MANUFACTURER.

⑭ PROVIDE TIME DELAY CIRCUIT BREAKER AS REQUIRED BY MANUFACTURER.

⑮ IN ACCORDANCE WITH NEC ARTICLE 230.2(e), PROVIDE A PERMANENT PLAQUE OR DIRECTORY AT EACH SERVICE DISCONNECT AS FOLLOWS:

• AT PANEL "2PB":

SERVICE NO. 1 - ALL 208/120V LOADS

SERVICE NO. 2 - LOCATED AT PUMP BUILDING (PUMP RM. 335)

• AT PANEL "4PB":

SERVICE NO. 2 - ALL 480/277V LOADS

SERVICE NO. 1 - LOCATED AT PUMP BUILDING (PUMP RM. 335)

⑯ PROVIDE ADVANCED ENERGY METERING WITH THE FOLLOWING CHARACTERISTICS:

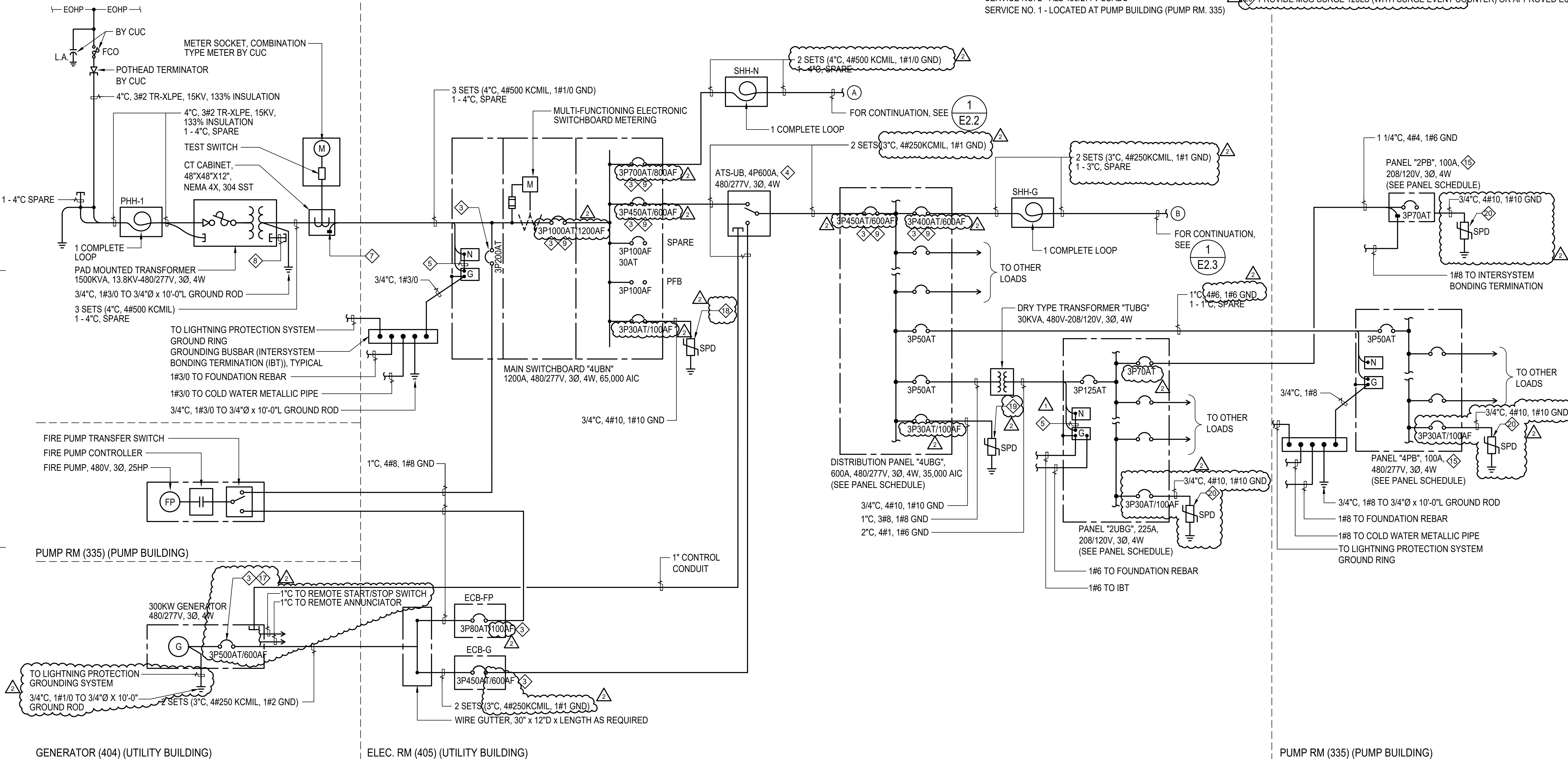
- MUST BE PERMANENTLY INSTALLED, RECORD AT INTERVAL OF ONE OR LESS, AND TRANSMIT DATA TO A REMOTE LOCATION
- ELECTRICITY METERS MUST RECORD BOTH CONSUMPTION AND DEMAND.
- THE DATA COLLECTION SYSTEM MUST USE A LOCAL AREA NETWORK OR BUILDING AUTOMATION SYSTEM
- SYSTEM MUST BE CAPABLE OF STORING ALL METER DATA FOR AT LEAST 36 MONTHS
- THE DATA MUST BE REMOTELY ACCESSIBLE
- ALL METERS IN THE SYSTEM MUST BE CAPABLE OF REPORTING HOURLY, DAILY, MONTHLY, AND ANNUAL ENERGY USE.

⑰ PROVIDE GROUND FAULT SENSING ALARM.

⑱ PROVIDE MCG SURGE 400LS (WITH SURGE EVENT COUNTER) OR APPROVED EQUAL

⑲ PROVIDE MCG SURGE 200LS (WITH SURGE EVENT COUNTER OR APPROVED EQUAL

⑳ PROVIDE MCG SURGE 120LS (WITH SURGE EVENT COUNTER) OR APPROVED EQUAL



ONE LINE DIAGRAM - SHEET 1

NOT TO SCALE

IF SHEET IS LESS THAN 24" X 36"
REDUCED PRINT - USE GRAPHIC SCALES

REVISIONS		
No.	Description	Date
△	ADDENDUM 1	12/6/22
△	ADDENDUM 2	01/16/22

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REGISTERED
PROFESSIONAL
ENGINEER
373
I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED
BY ME OR UNDER MY DIRECT SUPERVISION
Abim V. Morris
DATE: 10/7/2022

Project:
NMC
PACKAGE 1: STUDENT
CENTER BUILDING

Title:
ONE LINE DIAGRAM -
SHEET 1

CONSTRUCTION
DOCUMENTS

Designed: JF/LB
Drawn: NP/RS
Checked: IA/AM
Supv: AM
Scale: AS INDICATED
Date: 10/07/2022
Project No. File
Drawing No.

E2.1

Sheet No. of