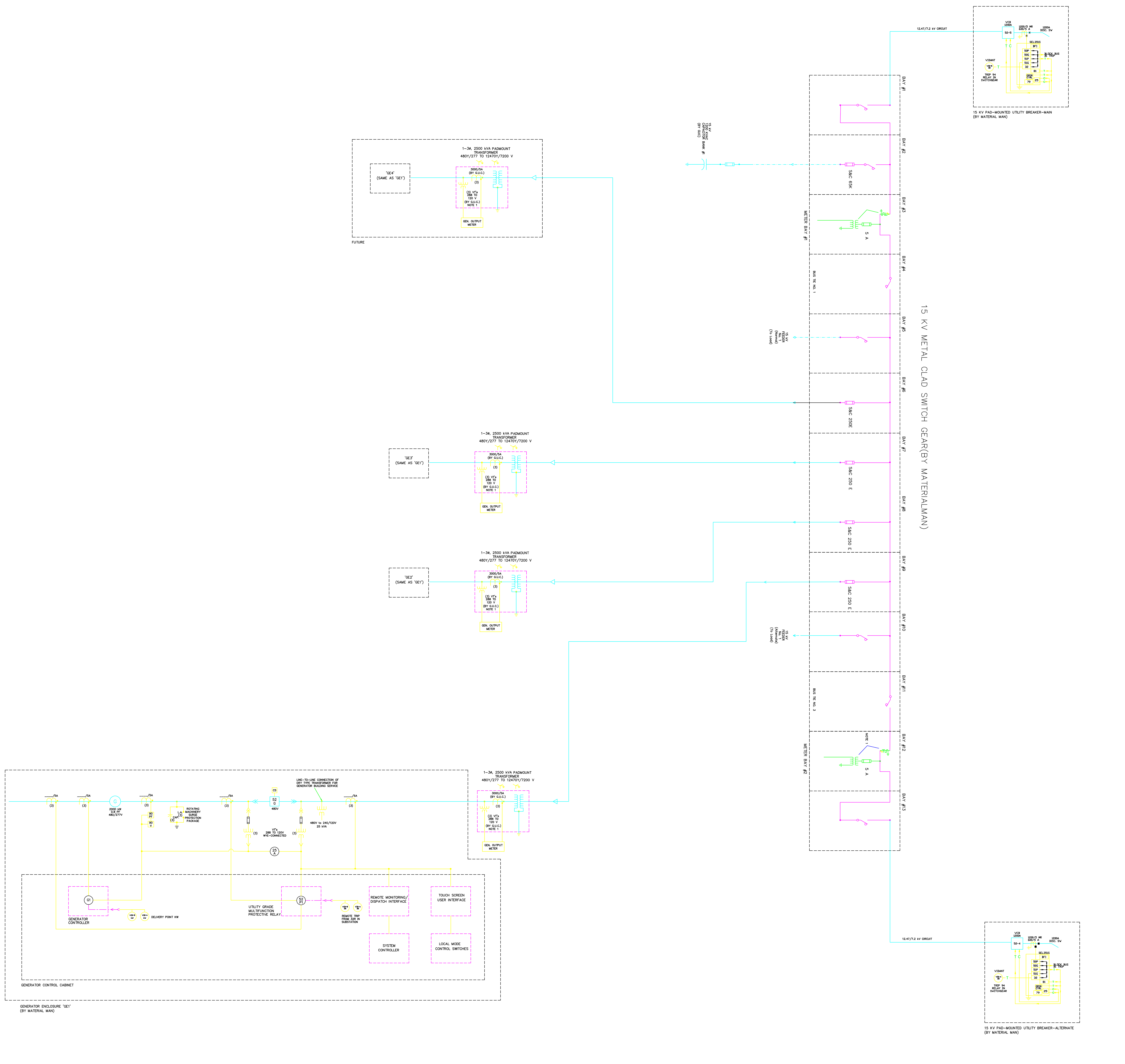

NOTES

LEGEND

RELAYS:

MULTIFUNCTION PROTECTIVE RELAY W/ FUNTIONS

- 32 – REVERSE POWER
- 51V – VOLTAGE CONTROLLED TIME OVERCURRENT
- 60FL – FUSE LOSS (LOSS OF POTENTIAL) DETECTION
- 46 – NEGATIVE SEQUENCE OVERCURRENT
- 50 – INSTANTANEOUS OVERCURRENT
- 27 – UNDER VOLTAGE
- 59 – OVER VOLTAGE
- 59I – PEAK OVERVOLTAGE
- 81U – UNDER FREQUENCY
- 81O – OVER FREQUENCY
- 50N – INSTANTANEOUS GROUND OVERCURRENT
- 51N – TIME GROUND OVERCURRENT
- 32R – REVERSE POWER
- 86G – LOCKOUT
- 87G – GENERATOR DIFFERENTIAL
- 94 – TRIPPING RELAY

GENERATOR CONTROLLER W/ FUNCTIONS

- 21 – PHASE DISTANCE
- 32 – ANTI-MONITORING
- 40 – LOSS OF FIELD
- 60FL – FUSE LOSS (LOSS OF POTENTIAL) DETECTION
- 50BF – BREAKER FAILURE
- 24 – VOLTS/HERTZ
- 59 – OVER VOLTAGE
- 81U – UNDER FREQUENCY
- 81O – OVER FREQUENCY
- 65 – LOAD-SHARING GOVERNOR

CONTROLLERS:

- 25A – AUTOMATIC SYNCHRONIZER
- 90PF – POWER FACTOR
- 90V – VOLTAGE REGULATOR

SWITCHES:

- CS – BREAKER CONTROL

NO.	REVISIONS	DATE

GREENVILLE UTILITIES COMMISSION
GREENVILLE, NORTH CAROLINA

VIDANT 6000 kW GENERATOR
ONE-LINE DIAGRAM

DWN. KWB	DATE 11/19/18	DWG. NO.
CKD. KWB	APPD.	
SCALE NONE		E1 OF 1