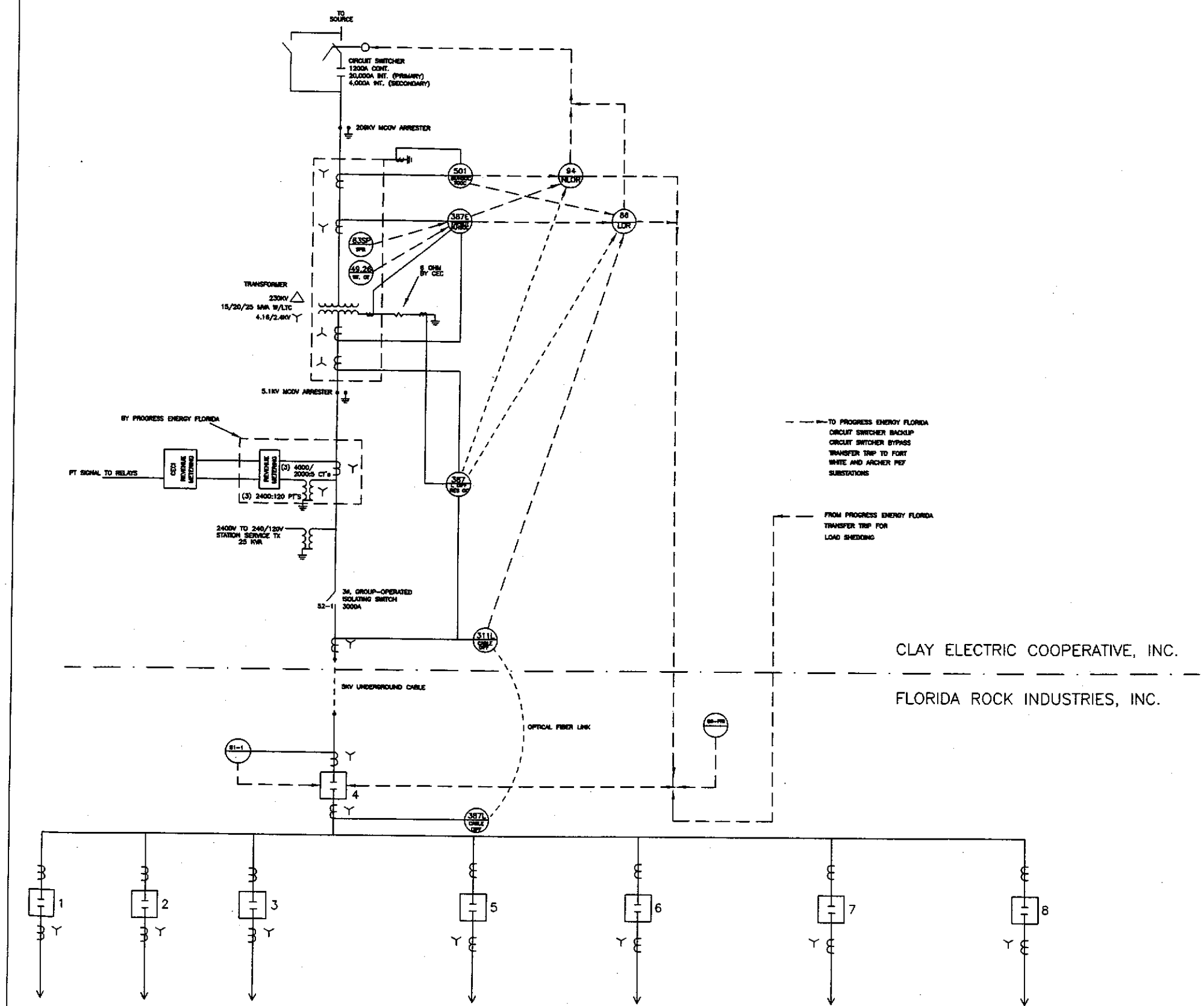

LEGEND

49	EXCESSIVE TEMPERATURE SWITCH OR RELAY
50	INSTANTANEOUS OVERCURRENT RELAY
51	TIME OVERCURRENT RELAY
63	RATE OF CHANGE OF PRESSURE OR EXCESS PRESSURE SWITCH OR RELAY
86	LOCK-OUT RELAY (REQUIRES MANUAL RESET)
94	SELF RESET TRIPPING RELAY (AUTOMATICALLY RESETS)
387E	TRANSFORMER DIFFERENTIAL AND OVERCURRENT RELAY
501	BACKUP HSOC AND TANK GROUND RELAY
387	BUS DIFFERENTIAL AND RESISTOR OC RELAY
311L	CABLE DIFFERENTIAL RELAY
CS	CIRCUIT SWITCHER
SPR	TRANSFORMER TANK EXCESSIVE RATE OF PRESSURE RISE
N	NEUTRAL
Ø	PHASE
OT	TRANSFORMER OIL EXCESSIVE TEMPERATURE RELAY
WT	TRANSFORMER WINDING EXCESSIVE TEMPERATURE RELAY
PEF	PROGRESS ENERGY FLORIDA
FRI	FLORIDA ROCK INDUSTRIES

◇ TERMINAL ON FRI CONTROL PANEL
◆ TERMINAL ON CONTROL PANEL

□ TERMINAL ON RTU
○ CONNECTION POINTS ON EQUIPMENT AND/OR COMPONENTS

◒ TERMINAL IN CIRCUIT SWITCHER CONTROL ENCLOSURE
◈ TERMINAL IN TRANSFORMER CONTROL CABINET

ANALOG INITIATING SIGNAL
POWER CIRCUIT
DIGITAL PICK-UP OR TRIP SIGNAL

REVISIONS

6-12-06	Removed 387L relay and added 2nd 501 relay	jas
5-01-07	REVISED FOR CONSTRUCTION	JAS

ENGINEERING RECORD

	BY	DATE
ENGINEER	J. SLOANE	12-1-05
DRAWN BY	J. SLOANE	12-1-05
CHK. BY		
DIR. OPR.		
DIR. ENG.		

HAILE SUBSTATION ADDITION
METERING AND PROTECTIVE RELAY SCHEME

CLAY ELECTRIC COOPERATIVE, INC.
KEYSTONE HEIGHTS, FLORIDA

SCALE: NONE | DEPARTMENT OF ENGINEERING | FLORIDA 14 CLAY

C.A.D.D.
W. O. NO. 107.2 202039
DRAWING NO. HAAPRS
SHEET NO. 2 OF X