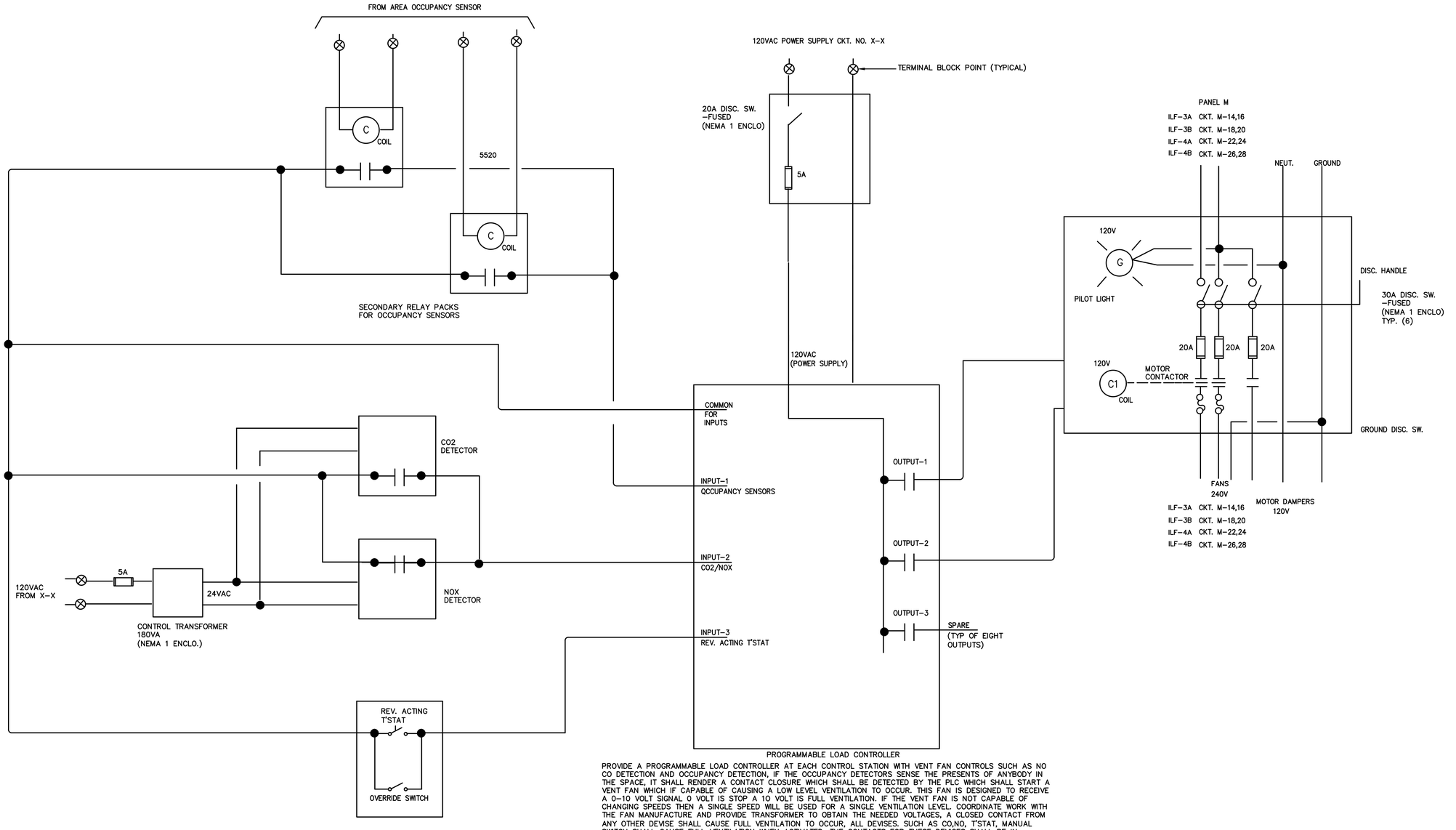

PROVIDE A PROGRAMMABLE LOAD CONTROLLER AT EACH CONTROL STATION WITH VENT FAN CONTROLS SUCH AS NO CO DETECTION AND OCCUPANCY DETECTION, IF THE OCCUPANCY DETECTORS SENSE THE PRESENTS OF ANYBODY IN THE SPACE, IT SHALL RENDER A CONTACT CLOSURE WHICH SHALL BE DETECTED BY THE PLC WHICH SHALL START A VENT FAN WHICH IF CAPABLE OF CAUSING A LOW LEVEL VENTILATION TO OCCUR. THIS FAN IS DESIGNED TO RECEIVE A 0-10 VOLT SIGNAL 0 VOLT IS STOP A 10 VOLT IS FULL VENTILATION. IF THE VENT FAN IS NOT CAPABLE OF CHANGING SPEEDS THEN A SINGLE SPEED WILL BE USED FOR A SINGLE VENTILATION LEVEL. COORDINATE WORK WITH THE FAN MANUFACTURE AND PROVIDE TRANSFORMER TO OBTAIN THE NEEDED VOLTAGES, A CLOSED CONTACT FROM ANY OTHER DEVISE SHALL CAUSE FULL VENTILATION TO OCCUR, ALL DEVISES. SUCH AS CO,NO, T'STAT, MANUAL SWITCH SHALL CAUSE FULL VENTILATION WHEN ACTIVATED, THE CONTACTS FOR THESE DEVICES SHALL BE IN PARALLEL.

PROGRAMMABLE LOAD CONTROLLER (PLC) CONTROL DIAGRAM

SCALE: NONE

THE PROGRAMMABLE LOAD CONTROLLER SHALL BE ALLEN BRADLEY MICRO 810 SERIES WITH 8 120VAC INPUTS AND 4 RELAY OUTPUTS, 8A RATED 120VAC AND USB ADAPTER PLUG AND 1.5 LCD DISPLAY AND KEYBOARD.
THE LOAD CONTROLLER SHALL BE ARRANGED FOR DIN RAIL MOUNTING AND SHALL BE LOCATED WITHIN A HOFFMAN ENCLOSURE WITH HINGED AND LATCHED DOOR, LOCKABLE. THE ENCLOSURE SHALL BE VENTILATED AND INCLUDE AN MOUNTING PLATE AT THE BACK OF THE ENCLOSURE FOR DIN MOUNTING RAILS. THE MINIMUM SIZE OF THE ENCLOSURE TO BE 12"X10"X6". PROVIDE TERMINAL BLOCKS FOR ALL WIRING FROM THE FIELD. ALL CONTROL WIRING TO BE MIN. SIZE #14 STRANDED COPPER.

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PENNSYLVANIA ONE CALL SYSTEM, INC.
1-800-242-1776

PENNSYLVANIA LAW REQUIRES NOT LESS THAN THREE NOR MORE THAN TEN WORKING DAYS NOTICE BEFORE EXCAVATION

REFER TO PENNSYLVANIA ONE CALL SYSTEM, INC. UTILITY LOCATIONS SHOWN HEREON ARE APPROXIMATE.

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NO.	REVISION NOTES	DATE

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EQUIPMENT BUILDING
CONSTRUCTION DRAWING
FOR
PROPOSED FIRST FLOOR PLAN
SOUTH HAMPTON TWP. CUMBERLAND COUNTY, PA

Drawn By: HH
Designed By: HH
Checked By: RC
File: 2022-SH-009
Date: 08/18/2023
Scale: 3/16"=1'-0"
Drawing No.
E-6