

HARRIMAN

AUBURN PORTLAND MANCHESTER

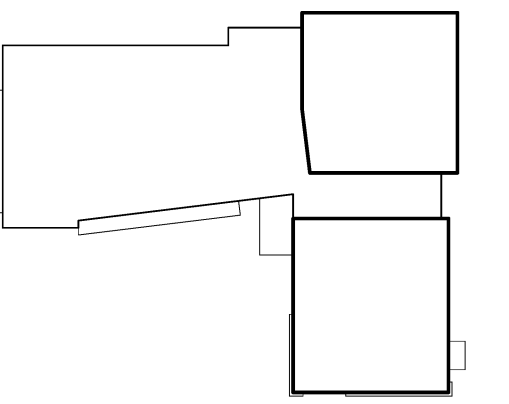
JEWISH COMMUNITY ALLIANCE OF SOUTHERN MAINE

PORTLAND, ME

Harriman Project No. 15309

Key Plan

Proj North



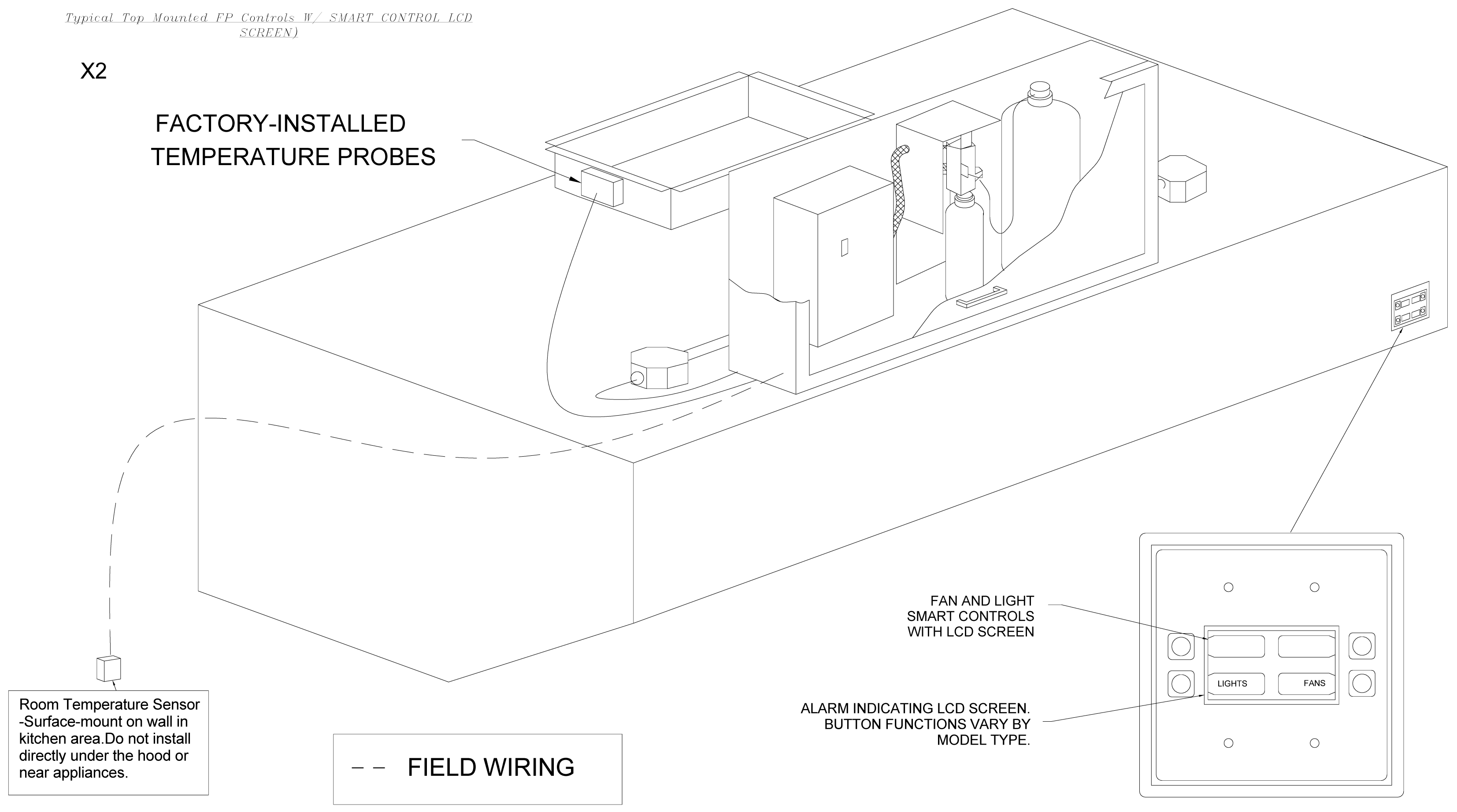
ELECTRICAL PACKAGES

NO.	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	H.P.	VOLT	FLA	
1		SC-210110FP	Top Utility Cabinet	Face Mount Right Side of Hood #1	1 Light	Smart Controls Thermostatic Control	EF-1	Exhaust	1	0.500	230	3.2
2		SC-210110FP	Top Utility Cabinet	Face Mount Right Side of Hood #2	1 Fan	Smart Controls Thermostatic Control	EF-2	Exhaust	1	0.333	208	2.6

Typical Top Mounted FP Controls w/ SMART CONTROL LCD SCREEN

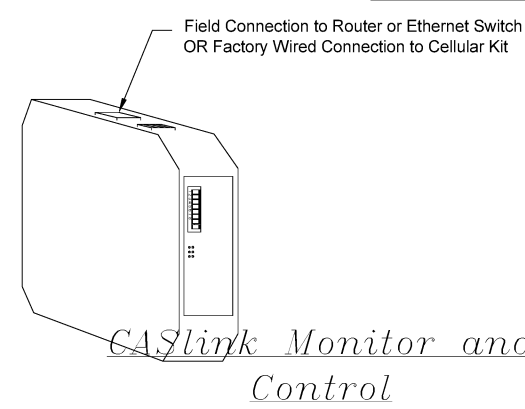
X2

FACTORY-INSTALLED TEMPERATURE PROBES



--- FIELD WIRING

Room Temperature Sensor -Surface-mount on wall in kitchen area. Do not install directly under the hood or near appliances.



Hood Control panel to support communications to cloud-based Management System
 Hood Control Panel to allow cloud-based Building Management System monitor real time parameters outlined as MONITOR in the points list.
 Hood Control Panel to allow cloud-based Building Management System control parameters outlined as CONTROL in the points list.

MONITORING AND CONTROL POINTS LIST

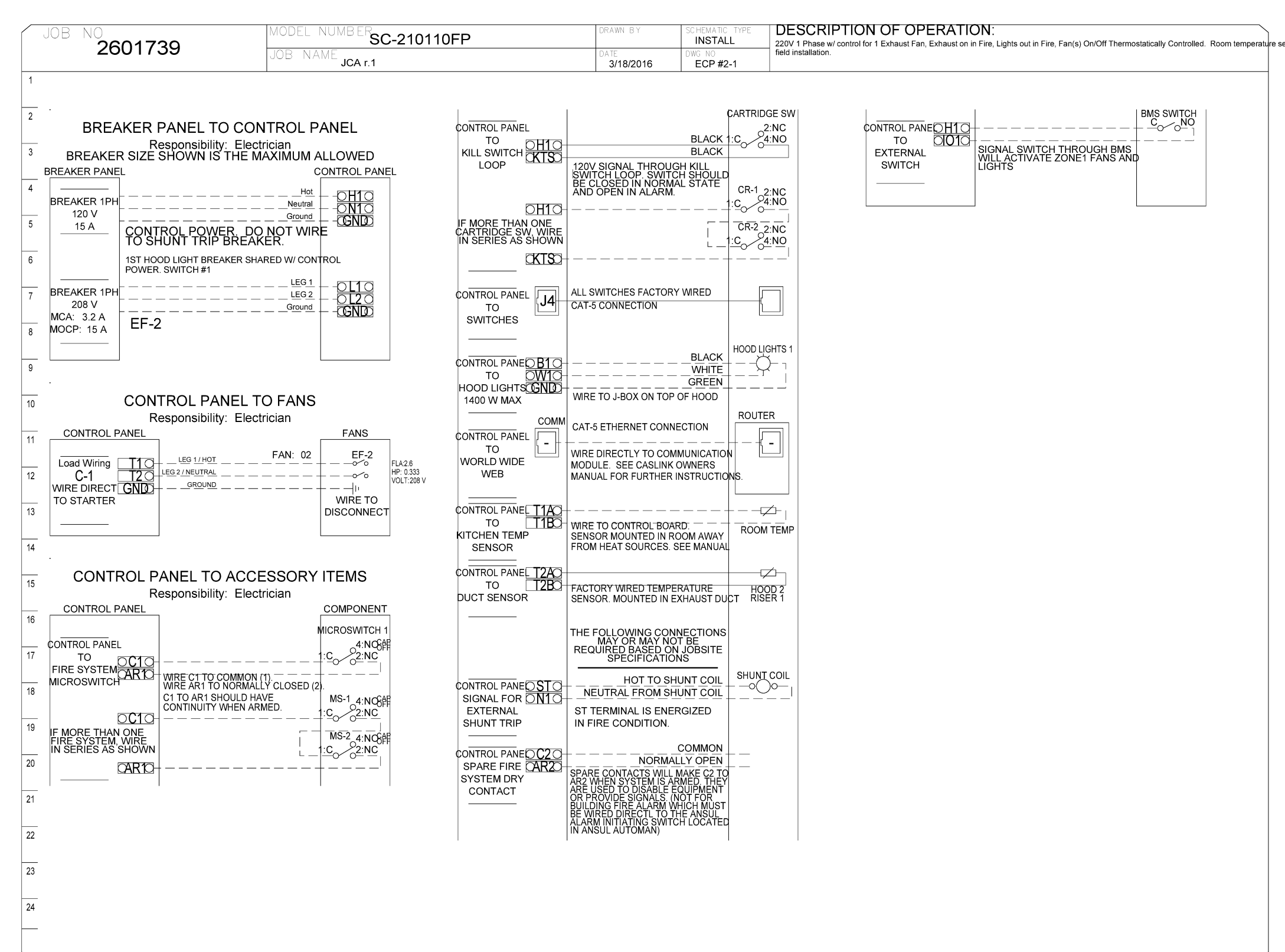
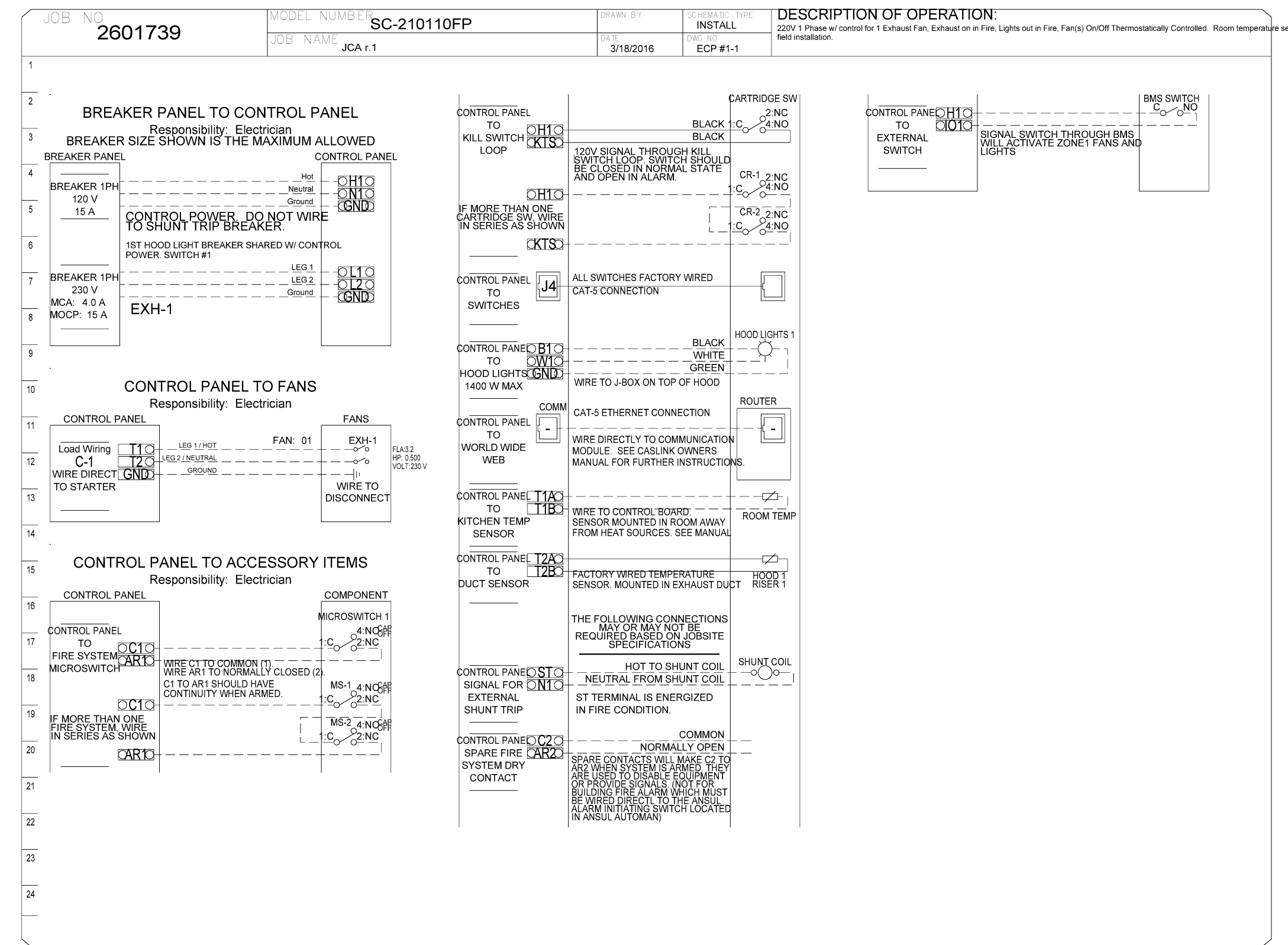
NO.	DESCRIPTION	FUNCTION	NO.	DESCRIPTION	FUNCTION
1	Temperature	MONITOR	1	Temperature	MONITOR
2	Exhaust Fan	MONITOR	2	Exhaust Fan	MONITOR
3	Exhaust Fan	MONITOR	3	Exhaust Fan	MONITOR
4	Exhaust Fan	MONITOR	4	Exhaust Fan	MONITOR
5	Exhaust Fan	MONITOR	5	Exhaust Fan	MONITOR
6	Exhaust Fan	MONITOR	6	Exhaust Fan	MONITOR
7	Exhaust Fan	MONITOR	7	Exhaust Fan	MONITOR
8	Exhaust Fan	MONITOR	8	Exhaust Fan	MONITOR
9	Exhaust Fan	MONITOR	9	Exhaust Fan	MONITOR
10	Exhaust Fan	MONITOR	10	Exhaust Fan	MONITOR
11	Exhaust Fan	MONITOR	11	Exhaust Fan	MONITOR
12	Exhaust Fan	MONITOR	12	Exhaust Fan	MONITOR
13	Exhaust Fan	MONITOR	13	Exhaust Fan	MONITOR
14	Exhaust Fan	MONITOR	14	Exhaust Fan	MONITOR
15	Exhaust Fan	MONITOR	15	Exhaust Fan	MONITOR
16	Exhaust Fan	MONITOR	16	Exhaust Fan	MONITOR
17	Exhaust Fan	MONITOR	17	Exhaust Fan	MONITOR
18	Exhaust Fan	MONITOR	18	Exhaust Fan	MONITOR
19	Exhaust Fan	MONITOR	19	Exhaust Fan	MONITOR
20	Exhaust Fan	MONITOR	20	Exhaust Fan	MONITOR
21	Exhaust Fan	MONITOR	21	Exhaust Fan	MONITOR
22	Exhaust Fan	MONITOR	22	Exhaust Fan	MONITOR
23	Exhaust Fan	MONITOR	23	Exhaust Fan	MONITOR
24	Exhaust Fan	MONITOR	24	Exhaust Fan	MONITOR

The Electrical Package, typically FP, is designed to thermostatically activate the exhaust fans for an exhaust hood whenever elevated temperatures are sensed in the exhaust system. This option will meet the requirements of IMC 507.2.1.1 by providing a thermostat(s) mounted in the duct or hood riser to sense increased exhaust temperatures. Controls shall be listed by ETL (UL 508A). The control enclosure shall be NEMA 1 rated and listed for installation inside of the exhaust hood utility cabinet. The control enclosure may be constructed of stainless steel or painted steel.

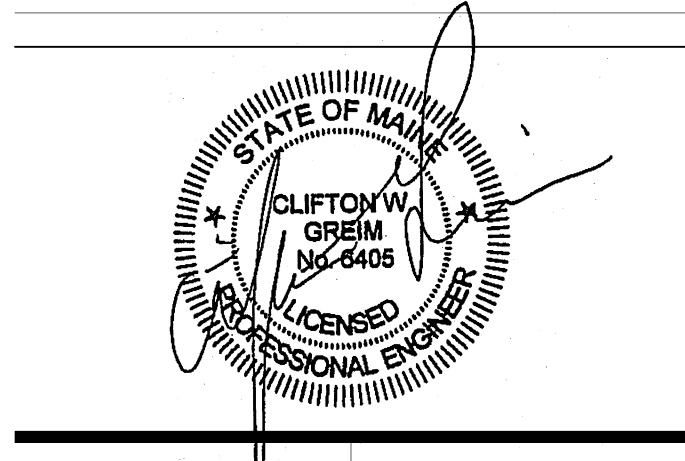
Temperature probe(s) located in the duct riser shall be constructed of Stainless Steel. A room temperature sensor is also provided for field installation in the kitchen space in order to start the fan(s) based on the temperature differential between the room and the exhaust air in the duct, rather than fixed set-points. The system is factory pre-set to activate the fans at 10 deg F^o above the room temperature.

Once the duct temperature reaches the activation point, the exhaust fans will be activated. The controls also provide hysteresis to prevent cycling of the fans after the cooking appliances have been turned off and the heat in the exhaust system is reduced. The hysteresis is factory set 2 degrees and will keep the exhaust running until the temperature falls 2 degrees below the activation set point. A hysteresis timer also exists to keep the fans running for at least 30 min after being activated by the temperature rise.

The activation and hysteresis settings may be field adjusted on the board LCD interface located inside the control enclosure to meet application needs. The panel is factory configured to shut down supply fans, turn on the exhaust fans and turn off the hood lights in a fire condition.



Mark	Date	Description
3	07-22-16	CONFORMANCE SET



Drawing Scales	PA/PE	CG	MDHS
NO SCALE			

DETAILS

M30.6