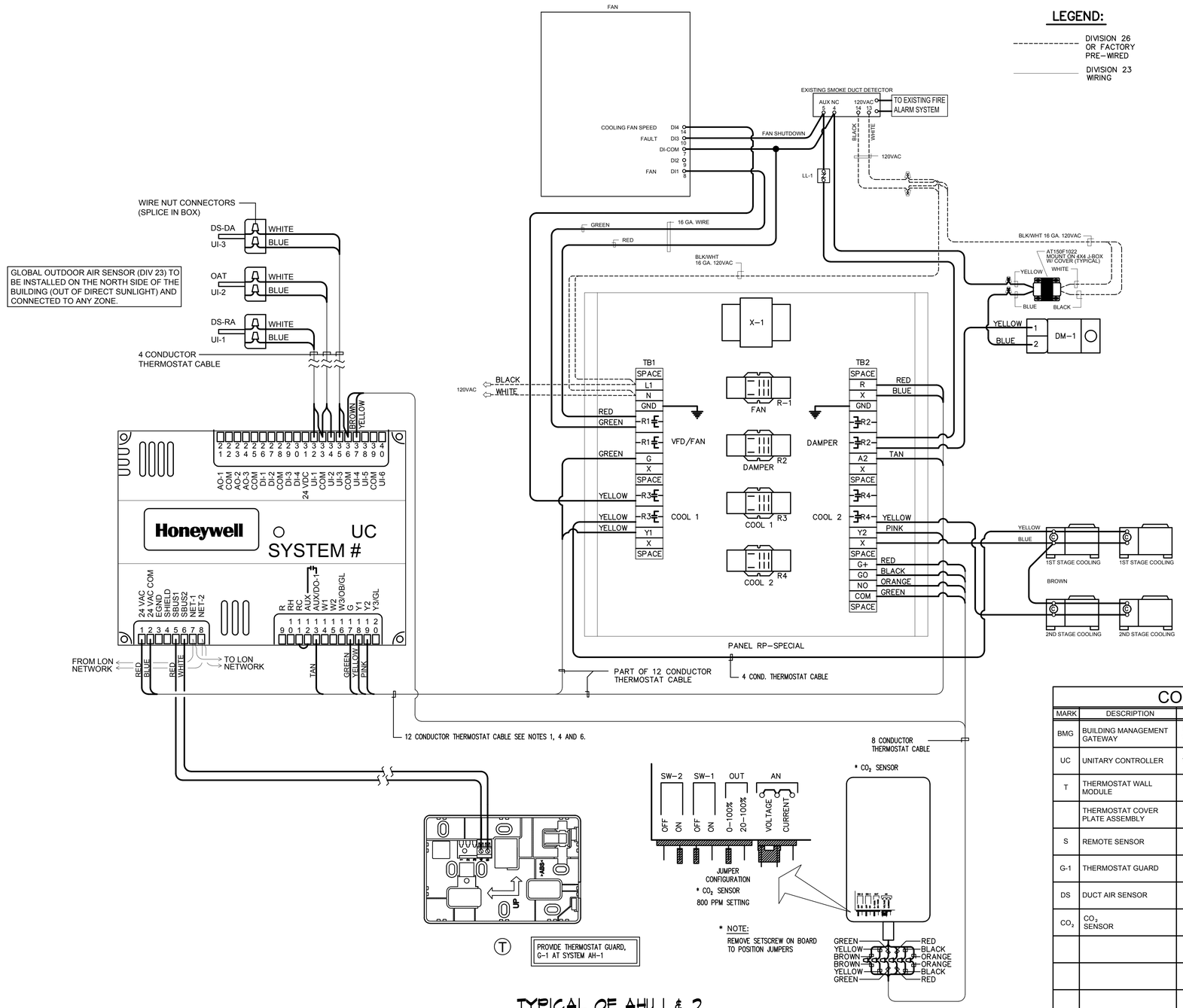

TYPICAL OF AHU 1 & 2 WIRING DIAGRAM

NOTES:

1. THERMOSTAT CABLE- 4, 8 OR 12 CONDUCTOR- 18 AWG SOLID COPPER WIRE INSULATED WITH HIGH DENSITY POLYETHYLENE. CONDUCTORS PARALLEL. ENCLOSED IN BROWN PVC JACKET. (NO 22 AWG CABLE ALLOWED).
2. IF COMPRESSOR UNITS HAVE THEIR OWN POWER SUPPLY IT MAY BE NECESSARY TO ADD ADDITIONAL RELAYS IN COMPRSSOR UNIT TO PROPERLY INTERFACE CONTROLS.
3. USE WIRE NUT CONNECTORS FOR SPLICING CONDUCTORS IN SPECIFIED LOCATIONS. AND TYTON TYPE CRIMP CONNECTORS FOR TERMINAL CONNECTIONS. NO TERMINAL CONNECTORS REQUIRED AT THERMOSTAT OR SENSOR.
4. DO NOT RUN ANY OTHER WIRING IN THIS CONDUIT EXCEPT THERMOSTAT CABLE.
5. VERIFY THAT FAN UNIT FAN SPEED CONTROL WIRING IS SET TO MATCH SCHEDULE SHEET AND THAT FAN OPERATES AT COOLING SPEED ONLY.
6. DO NOT SPLICE WIRE IN RUNS FROM SENSOR TO THERMOSTAT, THERMOSTAT TO FURNACE, AND THERMOSTAT TO DISCHARGE AIR SENSOR.
7. PROVIDE CHASE NIPPLE WITH PLASTIC BUSHING WHEN ATTACHING J-BOX TO EQUIPMENT.
8. PROVIDE CABLE-CLAMP SO THAT CABLES CANNOT BE PULLED OUT OF J-BOX.

CONTROL EQUIPMENT

MARK	DESCRIPTION	CAT. NO. (1)	MARK	DESCRIPTION	CAT. NO. (1)
BMG	BUILDING MANAGEMENT GATEWAY	LGW1000 (GATEWAY) WPM-8000 (WALL PLUG)	RP-6	RELAY PANEL 24X18X6W/COVER	(2) (4)
UC	UNITARY CONTROLLER	YCRL64385R1000	DM-1	DAMPER MOTOR TWO POSITION	MS8105A1030
T	THERMOSTAT WALL MODULE	LCBS WALL MODULE	DM-2	DAMPER MOTOR 2 POS W/END SWITCH	MS8105A1130
	THERMOSTAT COVER PLATE ASSEMBLY	50002883-001	X-1	TRANSFORMER 120, 208, 240V/24V 75VA	AT175F1023
S	REMOTE SENSOR	TR40	X-2	TRANSFORMER 120V/24V 50VA	AT150F1022
G-1	THERMOSTAT GUARD	(2)	SD-1	DUCT SMOKE DETECTOR	(2)
DS	DUCT AIR SENSOR	C7041B2005	SR	SMOKE RELAY 30 AMP 120V COIL	DP2030B5003 (3)
CO_2	CO_2 SENSOR	C7232B1006	RIB	TWO POLE RELAY	RIBU1C (2)
			RIB 20A	TWO POLE RELAY 20 AMP	RIB2401B (6)
			OAS	GLOBAL OUTDOOR AIR SENSOR	C7041F2006 (7)
			CRO	COMBINATION RELAY & THERMAL OVERLOAD DISCONNECT	(2) (4)
			E-BUS	ECHELON NETWORK CABLE	W221P-2001B

(1) ALL CATALOG NUMBERS SHOWN ARE HONEYWELL UNLESS NOTED OTHERWISE.
(2) SEE SPECIFICATIONS
(3) PROVIDE ENCLOSURE
(4) TO BE PURCHASED FROM AN APPROVED PER-BUILT PANEL BUILDER SEE SPECIFICATION.
(5) SEE PLAN FOR REQUIRED SIZE AND ZONE NUMBER.
(6) USE WITH CRO DISCONNECTFOR ELECTRIC WALL HEATER. CONTROL FROM UC.
(7) ONLY ONE REQUIRED FOR BUILDING. MAY BE CONNECTED TO ANY CONTROLLER AT NORTH SIDE.

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HVAC UPGRADE FOR:
LDS HAUULA WARD
54-208 HAUULA HOMESTEAD ROAD
HAUULA, HI 96717

PROJECT:
PROPERTY # 533-0718
ZONE (5) | SEC (4) | PLAT (5) | PARCEL (6)

SHEET TITLE:
AUTOMATIC TEMPERATURE CONTROL WIRING

DWAYNE C. SUDWEEKS
LICENSED PROFESSIONAL ENGINEER
No. 12930-M
NOV 16, 2020
HAWAII U.S.A.

DRWN. BY:	CKD. BY:
TD	DCS
JOB NO.	DATE:
20044	NOV 2020

SHEET:
ME-4
OF: 6

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