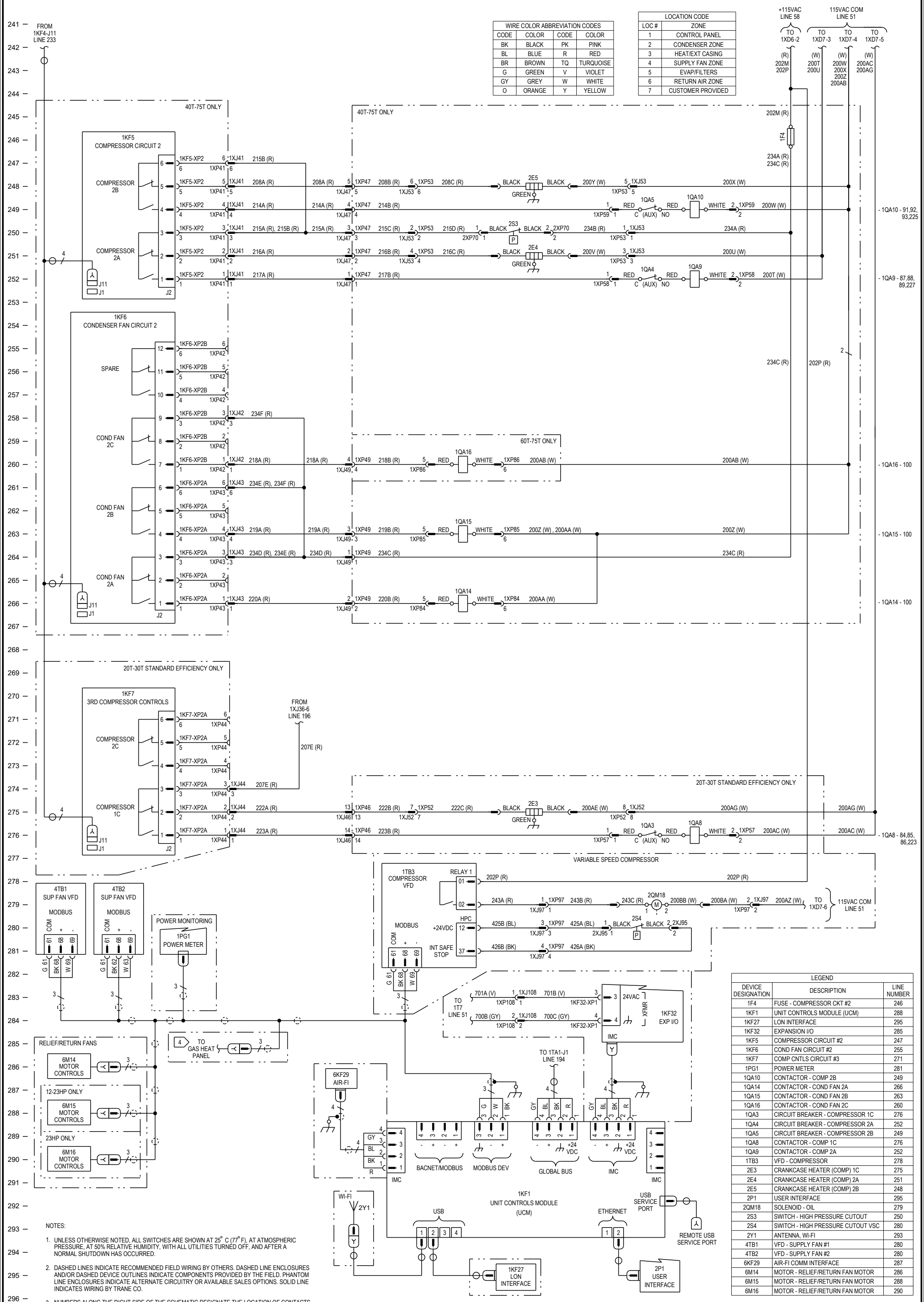

WIRE COLOR ABBREVIATION CODES			
CODE	COLOR	CODE	COLOR
BK	BLACK	PK	PINK
BL	BLUE	R	RED
BR	BROWN	TQ	TURQUOISE
G	GREEN	V	VIOLET
GY	GREY	W	WHITE
O	ORANGE	Y	YELLOW

LOCATION CODE	
LOC #	ZONE
1	CONTROL PANEL
2	CONDENSER ZONE
3	HEAT/EXT CASING
4	SUPPLY FAN ZONE
5	EVAP/FILTERS
6	RETURN AIR ZONE
7	CUSTOMER PROVIDED

NOTES:

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL UTILITIES TURNED OFF, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS. SOLID LINE INDICATES WIRING BY TRANE CO.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY THE LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT. AN OPEN ARROW BELOW THE LINE NUMBER POINTING UPWARD INDICATES A TIMED CONTACT WHICH BEGINS TIMING WHEN ENERGIZED.

4 SEE APPLICABLE GAS HEAT SECTION DIAGRAMS FOR BALANCE OF CIRCUIT.

LEGEND		
DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
1F4	FUSE - COMPRESSOR CKT #2	246
1KF1	UNIT CONTROLS MODULE (UCM)	288
1KF27	LON INTERFACE	295
1KF32	EXPANSION I/O	285
1KF5	COMPRESSOR CIRCUIT #2	247
1KF6	COND FAN CIRCUIT #2	255
1KF7	COMP CNTLS CIRCUIT #3	271
1PG1	POWER METER	281
1QA10	CONTACTOR - COMP 2B	249
1QA14	CONTACTOR - COND FAN 2A	266
1QA15	CONTACTOR - COND FAN 2B	263
1QA16	CONTACTOR - COND FAN 2C	260
1QA3	CIRCUIT BREAKER - COMPRESSOR 1C	276
1QA4	CIRCUIT BREAKER - COMPRESSOR 2A	252
1QA5	CIRCUIT BREAKER - COMPRESSOR 2B	249
1QA8	CONTACTOR - COMP 1C	276
1QA9	CONTACTOR - COMP 2A	252
1TB3	VFD - COMPRESSOR	278
2E3	CRANKCASE HEATER (COMP) 1C	275
2E4	CRANKCASE HEATER (COMP) 2A	251
2E5	CRANKCASE HEATER (COMP) 2B	248
2P1	USER INTERFACE	295
2QM18	SOLENOID - OIL	279
2S3	SWITCH - HIGH PRESSURE CUTOUT	250
2S4	SWITCH - HIGH PRESSURE CUTOUT VSC	280
2Y1	ANTENNA, WI-FI	293
4TB1	VFD - SUPPLY FAN #1	280
4TB2	VFD - SUPPLY FAN #2	280
6KF29	AIR-FI COMM INTERFACE	287
6M14	MOTOR - RELIEF/RETURN FAN MOTOR	286
6M15	MOTOR - RELIEF/RETURN FAN MOTOR	288
6M16	MOTOR - RELIEF/RETURN FAN MOTOR	290

DESIGNER:	D. CONDIE
ENGINEER:	L. D'ALBANI
TRANE © DATE:	11/10/17
REPLACES:	- - -
SIMILAR TO:	- - -
REVISION DATE:	5/14/19
REVISED BY:	K. EDWARDS
APPROVED BY:	S. MCKINLEY
CAD SYSTEM USED:	PRO/ DIAGRAM

TRANE ®

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IEC DESIGN COMPLIANT

INTELLIPAK
DIAGRAM
CONTROLS SCHEMATIC - 20T-75T
REFRIGERATION SYSTEMS #2

MASTER NUMBER:	DRAWING NUMBER:	SHEET:	REV
12132640	12132641	5 OF 7	F