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CONTROL TRANSFORMER SECONDARY CLASS CC		
DESIGNATION	VOLTAGE	RATING
1F13	380V	10A
	460V	10A
1F14	400V	10A
	400V	10A
CONTROL TRANSFORMER PRIMARY CLASS CC		
1F15	380V	5A
	460V	5A
1F16	400V	5A

CONDENSER FANS CLASS CC		
DESIGNATION	TONNAGE	RATING
1F1	115, 130	20A
1F2	150, 170, 180	30A
1F3	200, 215, 230, 250, 270	30A
1F4	115, 130	30A
1F5	150, 170, 180	30A
1F6	200, 215, 230, 250, 270	30A
1F7	115, 130	30A
1F8	150, 170, 180	30A
1F9	200, 215, 230, 250, 270	30A
1F10	115, 130	20A
1F11	150, 170, 180	30A
1F12	200, 215, 230, 250, 270	30A

GENERAL NOTES:

- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25C (77F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY, WITH ALL POWER REMOVED, AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
- WIRES REPRESENTED BY DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. WIRES REPRESENTED BY SOLID LINES INDICATE FACTORY INSTALLED WIRING.
- DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE OPTIONAL COMPONENTS WIRING.
- NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF COMPONENT CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
- ALL FIELD WIRING MUST BE IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE (NEC), STATE, AND LOCAL CODES.
- CLASS 1 FIELD WIRING INSULATION RATING IS REQUIRED TO BE EQUAL TO OR GREATER THAN THE EQUIPMENT SUPPLY VOLTAGE RATING. CLASS 2 FIELD WIRING INSULATION IS REQUIRED TO BE RATED AT 300 V MINIMUM.

FLAG NOTES:

- COMPONENT (LLIDS) ARE NOT NECESSARILY WIRED ON THE IPC BUS IN THE ORDER SHOWN ON SCHEMATIC.
- EXTERNAL STOP AND EMERGENCY STOP CONTACTS ARE JUMPERED IN THE FACTORY BY JUMPERS W1 & W2 TO ENABLE UNIT OPERATION. IF REMOTE CONTROL IS DESIRED, REMOVE THE JUMPERS AND CONNECT TO THE DESIRED CONFIGURATION.
- CONTACT CLOSURE ENABLES ICE MAKING.
- FIELD ASSIGNED PROGRAMMABLE RELAYS.
- ALL UNIT POWER WIRING MUST BE COPPER CONDUCTORS ONLY AND HAVE A MINIMUM INSULATION TEMPERATURE RATING OF 90C.
- CONNECTIONS ARE INTENDED FOR CLASS 2 ONLY.
- ONLY ONE OF THE SHOWN VOLTAGES CAN BE UTILIZED. REFER TO THE UNIT NAMEPLATE FOR THE CORRECT SUPPLY VOLTAGE.
- POWER FOR THE EVAPORATOR HEATER AND/OR OPTIONAL CONVENIENCE OUTLET IS SUPPLIED BY A CUSTOMER PROVIDED POWER SUPPLY. MAX FUSE SIZE IS 20 AMPS FOR EVAPORATORS AND 15 AMPS FOR OPTIONAL CONVENIENCE OUTLET.
- WIRING FOR 1K24 AS SHOWN IN INSET WHEN CHILLED WATER SETPOINT IS ENABLED VIA MODULE 1K25.
- TERMINALS 5 & 6 ARE TO BE WIRED TO CUSTOMER DEMAND LIMIT SETPOINT. INPUT CONFIGURED 2-10 VDC FROM FACTORY. SEE OPERATING INSTRUCTIONS TO CONFIGURE FOR 4-20 mA.
- TERMINALS 2 & 3 ARE TO BE WIRED TO CUSTOMER CHILLED WATER SETPOINT. INPUT CONFIGURED 2-10 VDC FROM FACTORY. SEE OPERATING INSTRUCTIONS TO CONFIGURE FOR 4-20 mA.
- TERMINALS 1 & 3 ARE TO BE WIRED TO REPORT % CAPACITY. OUTPUT CONFIGURED 2-10 VDC.
- WIRES 4B, 5B, 6B, 7B, 8B, 9B ONLY PRESENT WHEN PARALLEL WIRE SETS ARE USED.
- RELAY RATINGS AT 120VAC: 7.2 AMPS RESISTIVE, 2.88 AMPS PILOT DUTY, 1/3 HP, 7.2 FLA. RELAY RATINGS AT 240VAC: 5 AMPS GENERAL PURPOSE.
- SEE AFD PARAMETER LABEL X39003970 FOR ADDITIONAL CONFIGURATION INFORMATION.
- CUSTOMER SUPPLIED POWER: 115/60/1PH OR 230/50/1PH TO POWER RELAYS. MAX FUSE SIZE IS 20 AMPS. GROUND ALL CUSTOMER SUPPLIED POWER SUPPLIES AS REQUIRED BY APPLICABLE CODES. GREEN GROUND SCREWS ARE PROVIDED IN UNIT CONTROL PANEL.
- SHIELDING TO BE GROUNDED AT THE JUNCTION BOX ONLY.
- OPTIONAL TOTAL FREE COOLING.

⚠ WARNING
HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS AND FOLLOW LOCK OUT AND TAG PROCEDURES BEFORE SERVICING. INSURE THAT ALL MOTOR CAPACITORS HAVE DISCHARGED STORED VOLTAGE. UNITS WITH VARIABLE SPEED DRIVE, REFER TO DRIVE INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE COULD RESULT IN DEATH OR SERIOUS INJURY.

⚠ AVERTISSEMENT
TENSION DANGEREUSE!
COUPER TOUTES LES TENSIONS ET OUVRIR LES SECTIONNEURS A DISTANCE. PUIS SUIVRE LES PROCEDURES DE VERROUILLAGE ET DES ETIQUETTES AVANT TOUTE INTERVENTION. VERIFIER QUE TOUTS LES CONDENSATEURS DES MOTEURS SONT DECHARGES. DANS LE CAS D'UNITES COMPORTANT DES ENTRAINEMENTS A VITESSE VARIABLE, SE REPORTER AUX INSTRUCTIONS DE L'ENTRAINEMENT POUR DECHARGER LES CONDENSATEURS. UN MANQUEMENT A LA PROCEDURE CI-DESSUS PEUT ENTRAÎNER DES BLESSURES GRAVES, VOIRE LA MORT.

⚠ ADVERTENCIA
¡VOLTAJE PELIGROSO!
DESCONECTE TODA LA ENERGIA ELECTRICA, INCLUIDO LAS DESCONEXIONES REMOTAS Y SIGA LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO ANTES DE PROCEDER AL SERVICIO. ASEGURESE DE QUE TODOS LOS CAPACITORES DEL MOTOR HAYAN DESCARGADO EL VOLTAJE ALMACENADO. PARA LAS UNIDADES CON TRANSMISION DE VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR. NO REALIZAR LO ANTE DICHO PUEDE PROVOCAR LA MUERTE O LESIONES GRAVES.

NOTICE	AVIS	AVISO
USE COPPER CONDUCTORS ONLY! UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS. FAILURE TO DO THE ABOVE COULD RESULT IN EQUIPMENT DAMAGE.	UTILISER QUE DES CONDUCTEURS EN CUIVRE! LES BORNES DE L'UNITE NE SONT PAS CONÇUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS. UN MANQUEMENT A LA PROCEDURE CI-DESSUS PEUT ENTRAÎNER DES DOMMAGES A L'EQUIPEMENT.	¡UTILICE ÚNICAMENTE CONDUCTORES DE COBRE! LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORES. NO REALIZAR LO ANTE DICHO PUEDE PROVOCAR DAÑOS EN EL EQUIPO.


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SIMILAR TO:	
USED BY:	
CAD: CREO SCHEMATICS	

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RTAF	
STANDARD EFFICIENCY 270T HIGH EFFICIENCY 115T-250T	
57226999	SHEET 1
REV 1	M

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1K6	Module; Dual Relay Output - AFD Run Command	6-254
1K7	Module; Dual Analog I/O; AFD Speed Command	6-271
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1XP4	Plug; Condenser Fan Power Circuit 2 - Bank 2/3	4-132
1XP5	Plug; Ventilation Fan 1	6-285
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1XP7	Plug; AFD Controls - Compressor 1A	6-271
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DEVICE	DESCRIPTION	ZONE
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3B3	Temperature Switch; Ventilation Fan Enable	7-343
3B3	Temperature Switch; Ventilation Fan Enable	7-319
3BL1	Level Sensor; Oil Loss - Compressor 1A	9-507
3BP1	Pressure Transducer; Suction Pressure - Circuit 1A	11-635
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delete
3BP5

DEVICE	DESCRIPTION	ZONE
4B1	Switch; High Pressure Cutout - Circuit 2	6-242
4B3	Temperature Switch; Ventilation Fan Enable	7-322
4BL1	Level Sensor; Oil Loss - Compressor 2A	9-499
4BP1	Pressure Transducer; Suction Pressure - Circuit 2A	11-623
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4BP3	Pressure Transducer; Oil Pressure Circuit 2A	11-631
4BP4	Pressure Transducer; Liquid Pressure Microchannel Evap - Circuit 2A	11-635
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4BT3	Temperature Sensor; Liquid Line Temperature Microchannel Evap - Circuit 2A	11-615
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delete
4BP5

DEVICE	DESCRIPTION	ZONE
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5K28	Relay; Unit Status	10-545
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DEVICE	DESCRIPTION	ZONE
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6M11	Motor; Chilled Water Pump 2	3-28
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DEVICE PREFIX LOCATION CODE	
AREA	LOCATION
1	CONTROL PANEL
2	NOT USED
3	CIRCUIT 1
4	CIRCUIT 2
5	CUSTOMER REMOTELY INSTALLED
6	UNIT WIRING

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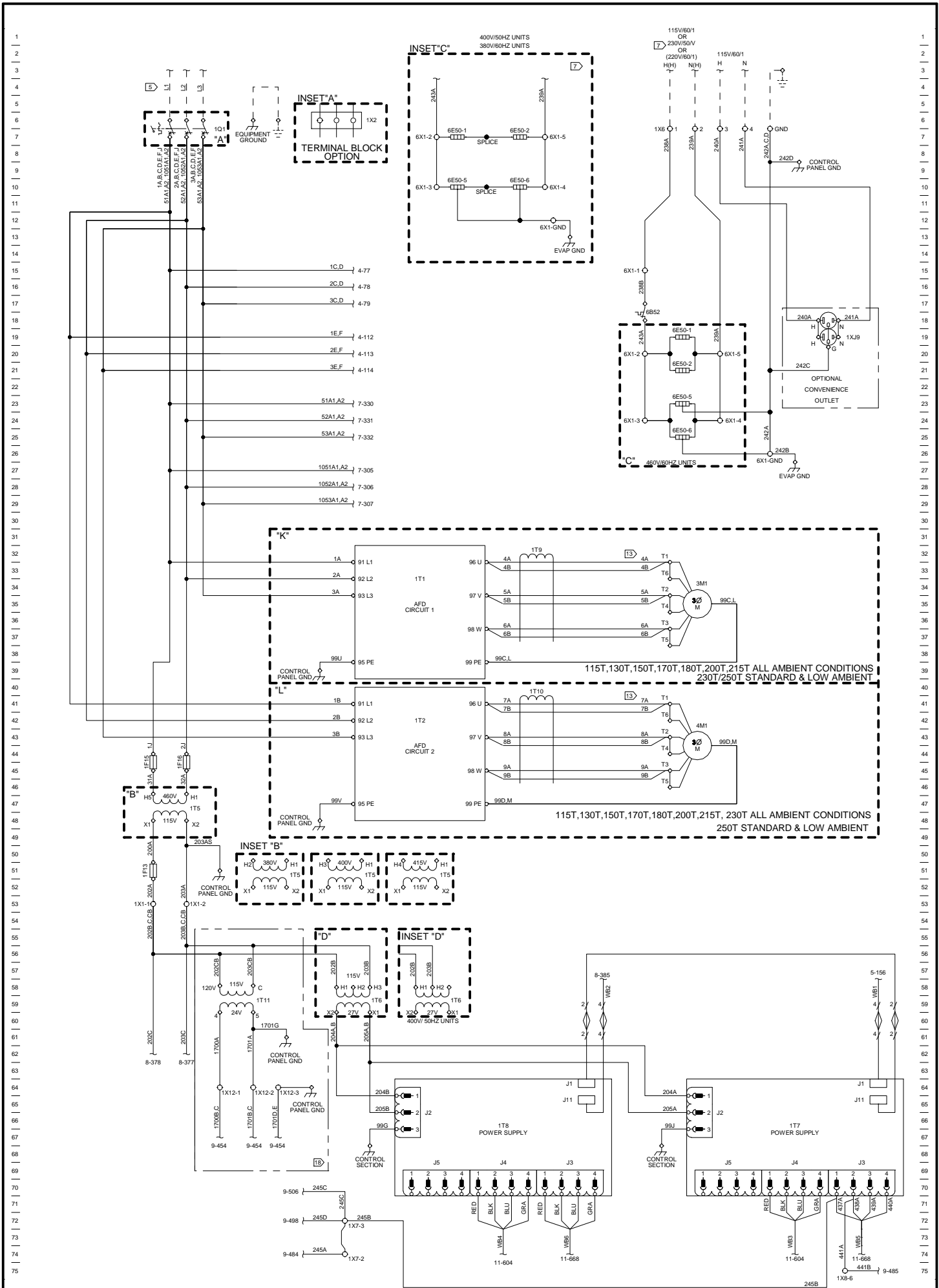


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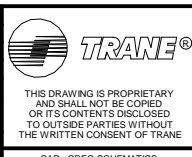
LEGEND
 RTAF
 STANDARD EFFICIENCY 270T
 HIGH EFFICIENCY 115T-250T

57226999
 SHEET 2

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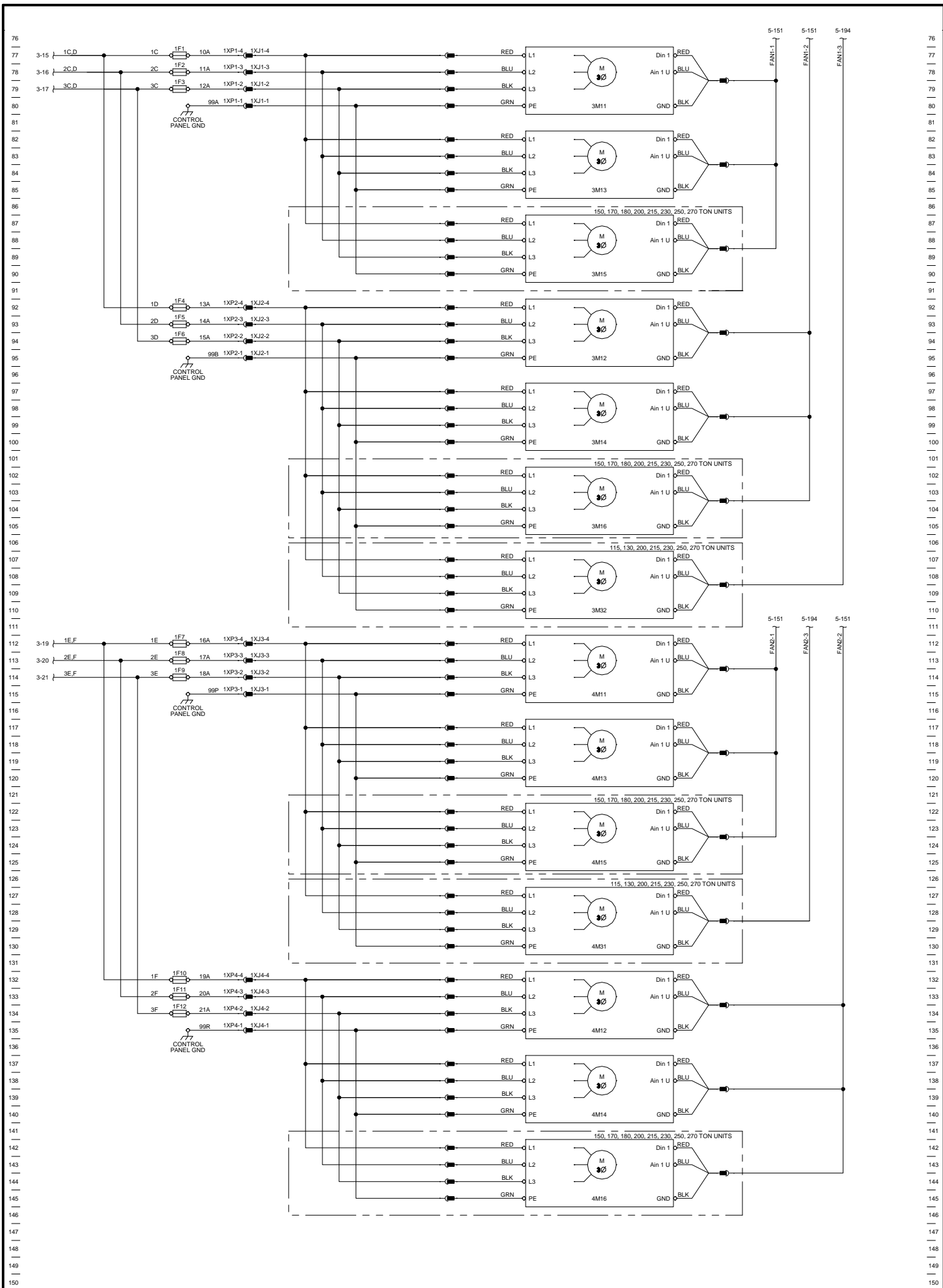


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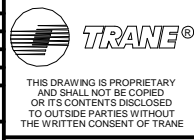


INCOMING POWER
RTAF
 STANDARD EFFICIENCY 270T
 HIGH EFFICIENCY 115T-250T
57226999
 SHEET 3



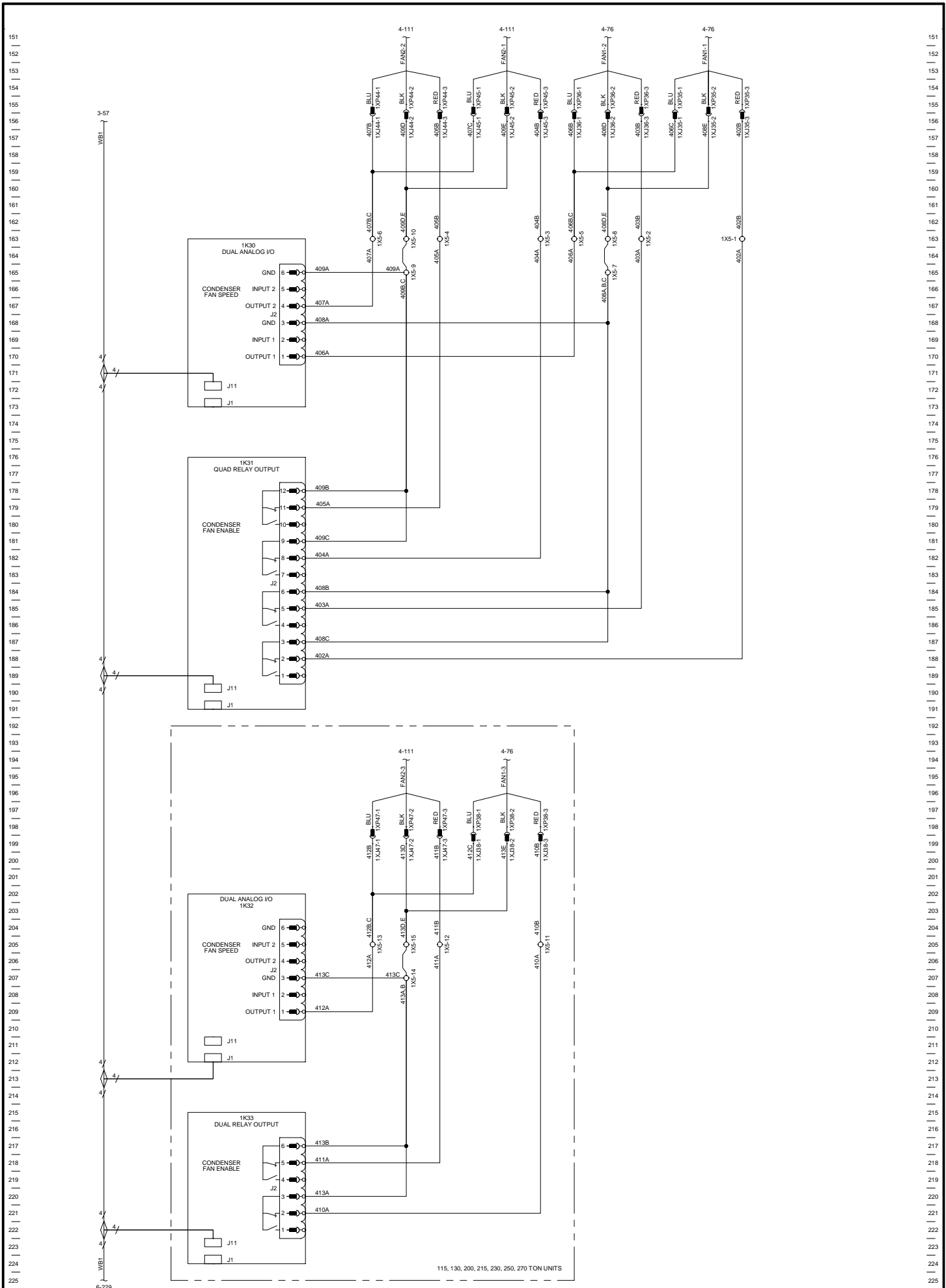


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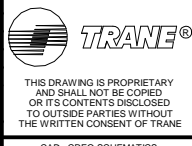


FAN POWER
 RTAF
 STANDARD EFFICIENCY 270T
 HIGH EFFICIENCY 115T-250T
57226999
 SHEET 4



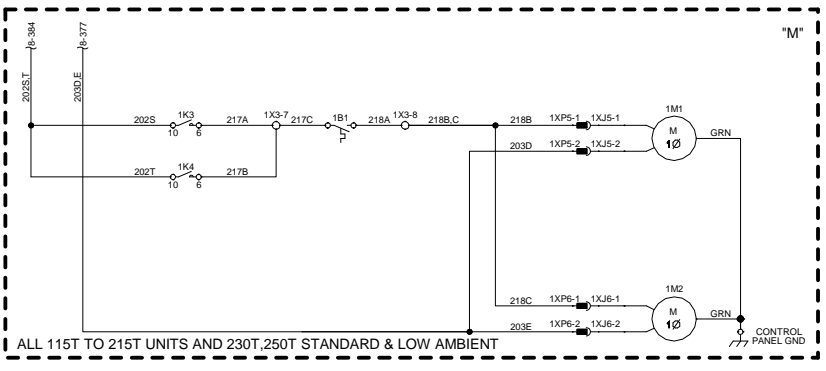
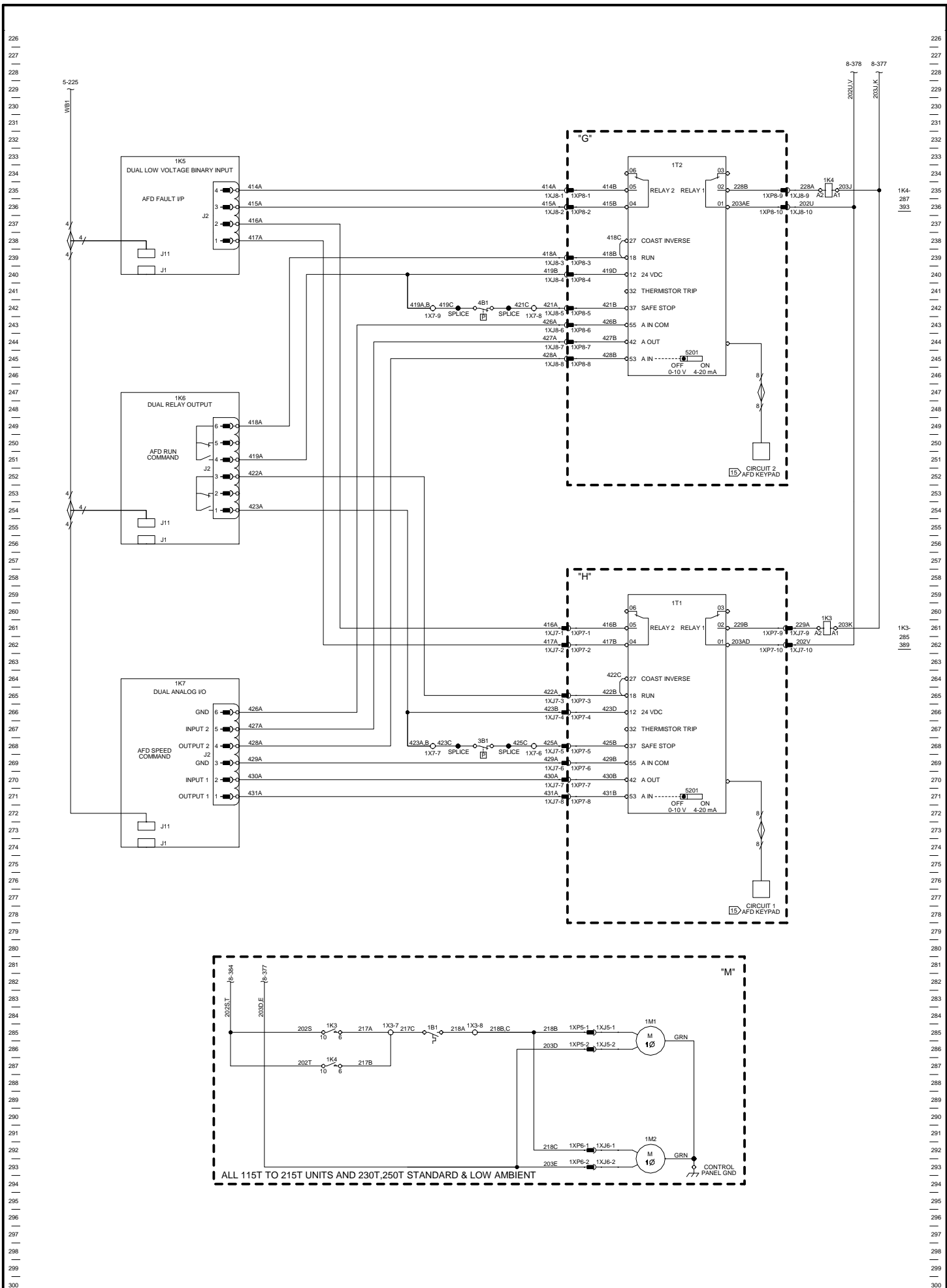


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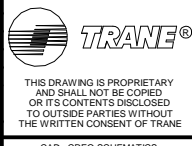


FAN CONTROLS
 RTAF
 STANDARD EFFICIENCY 270T
 HIGH EFFICIENCY 115T-250T
 57226999
 SHEET 5





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COMPRESSOR CONTROLS

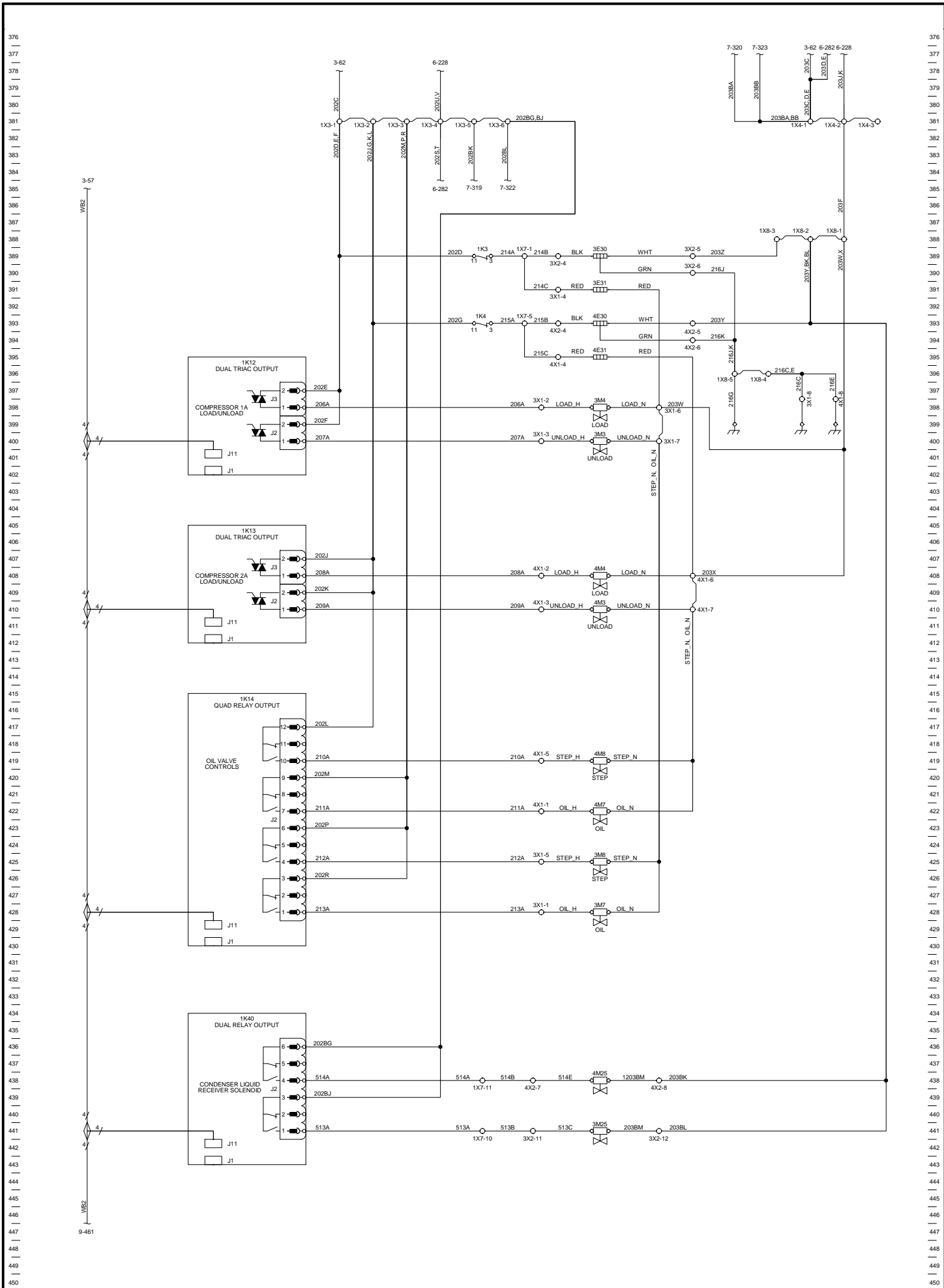
RTAF

**STANDARD EFFICIENCY 270T
HIGH EFFICIENCY 115T-250T**


757226999

SHEET 6





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CAD: CREO SCHEMATICS

OIL MANAGEMENT

RTAF

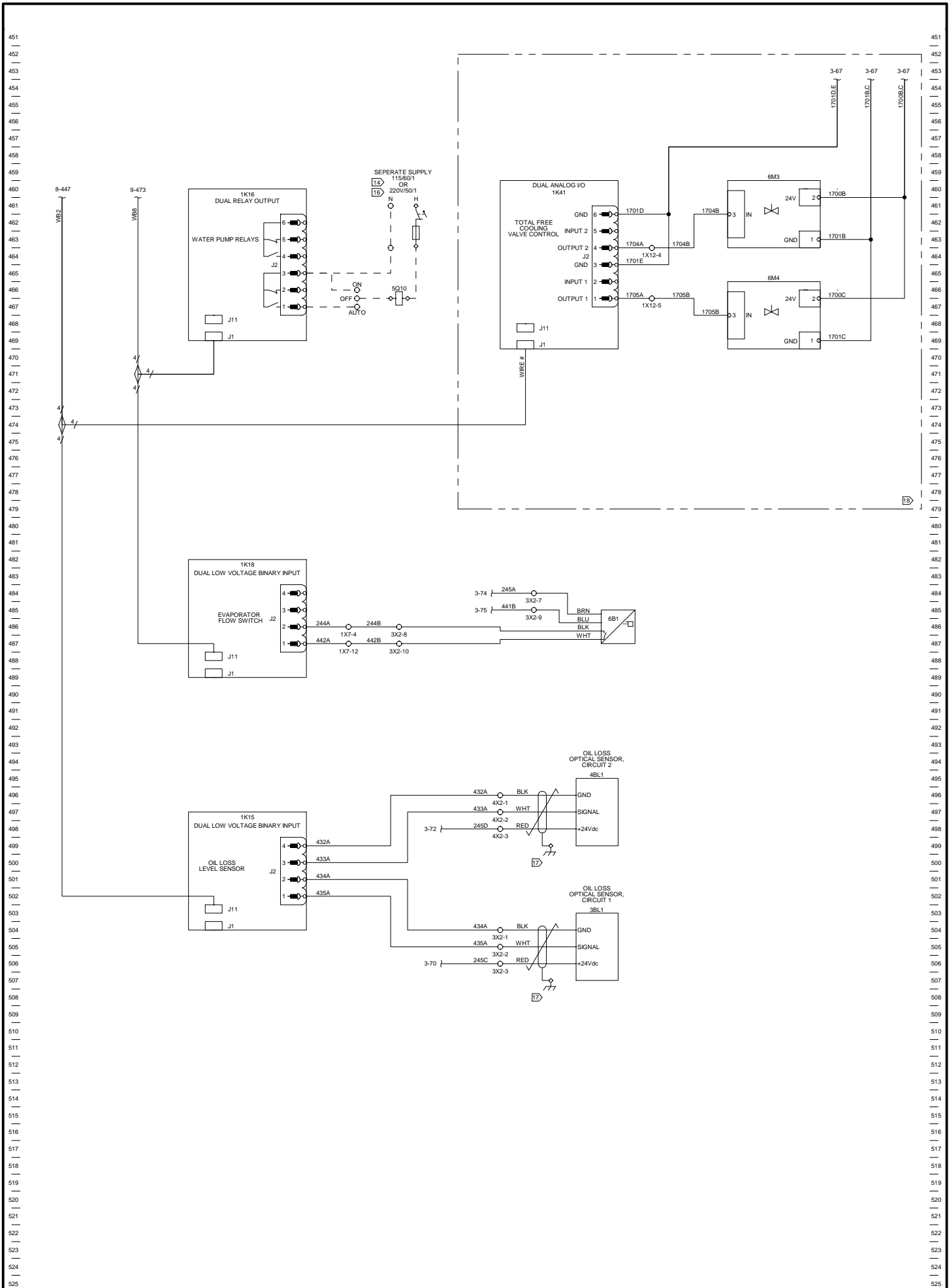
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SHEET 8

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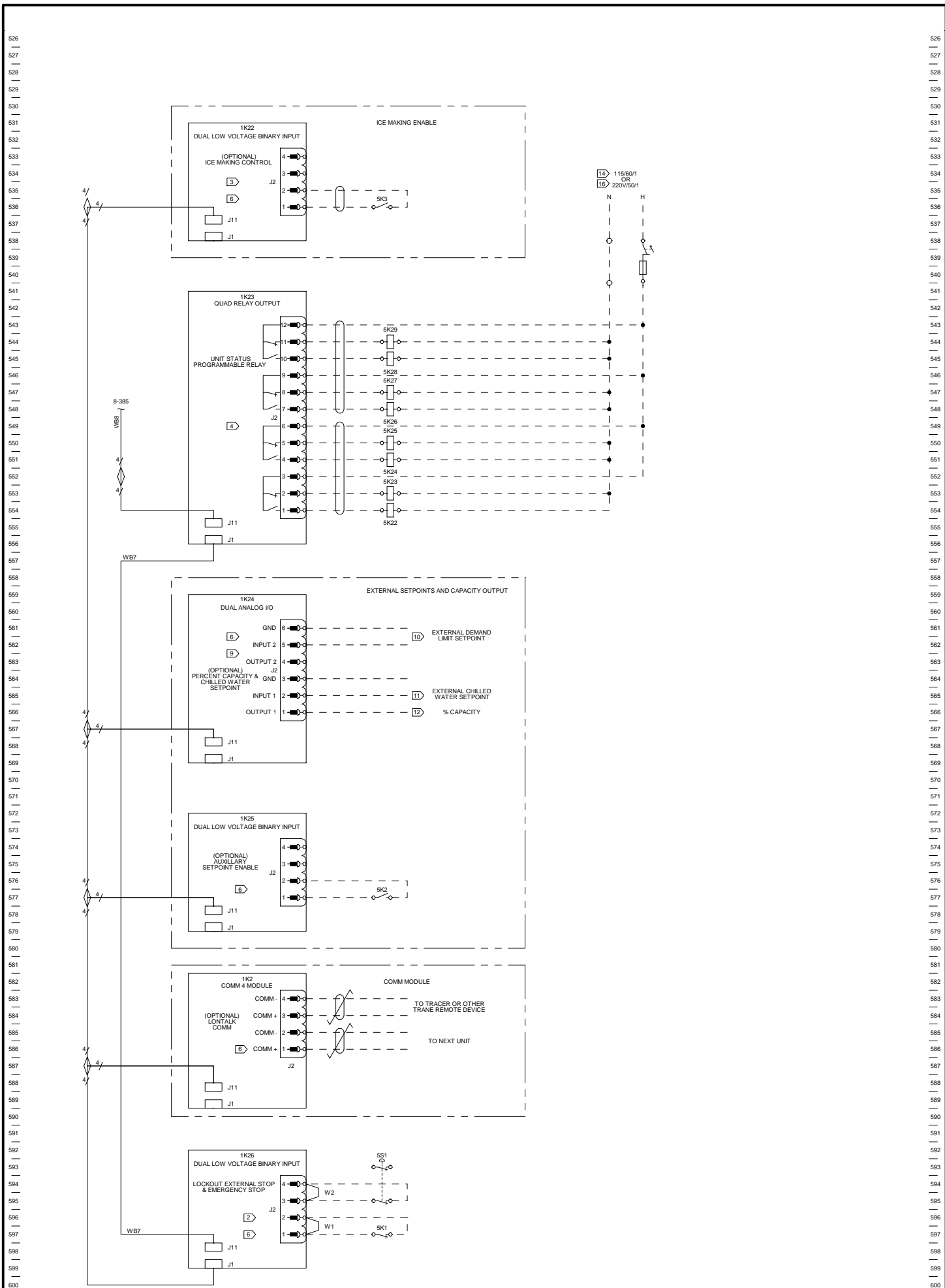
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 CAD: CREO SCHEMATICS

OIL MANAGEMENT
RTAF
 STANDARD EFFICIENCY 270T
 HIGH EFFICIENCY 115T-250T

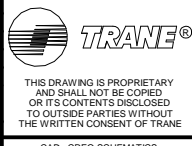
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SHEET 9



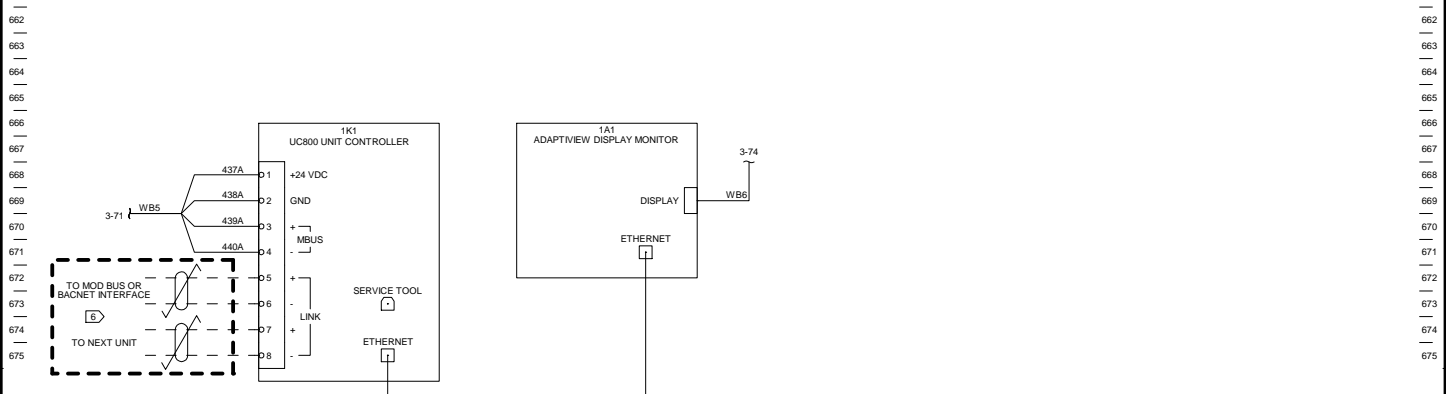
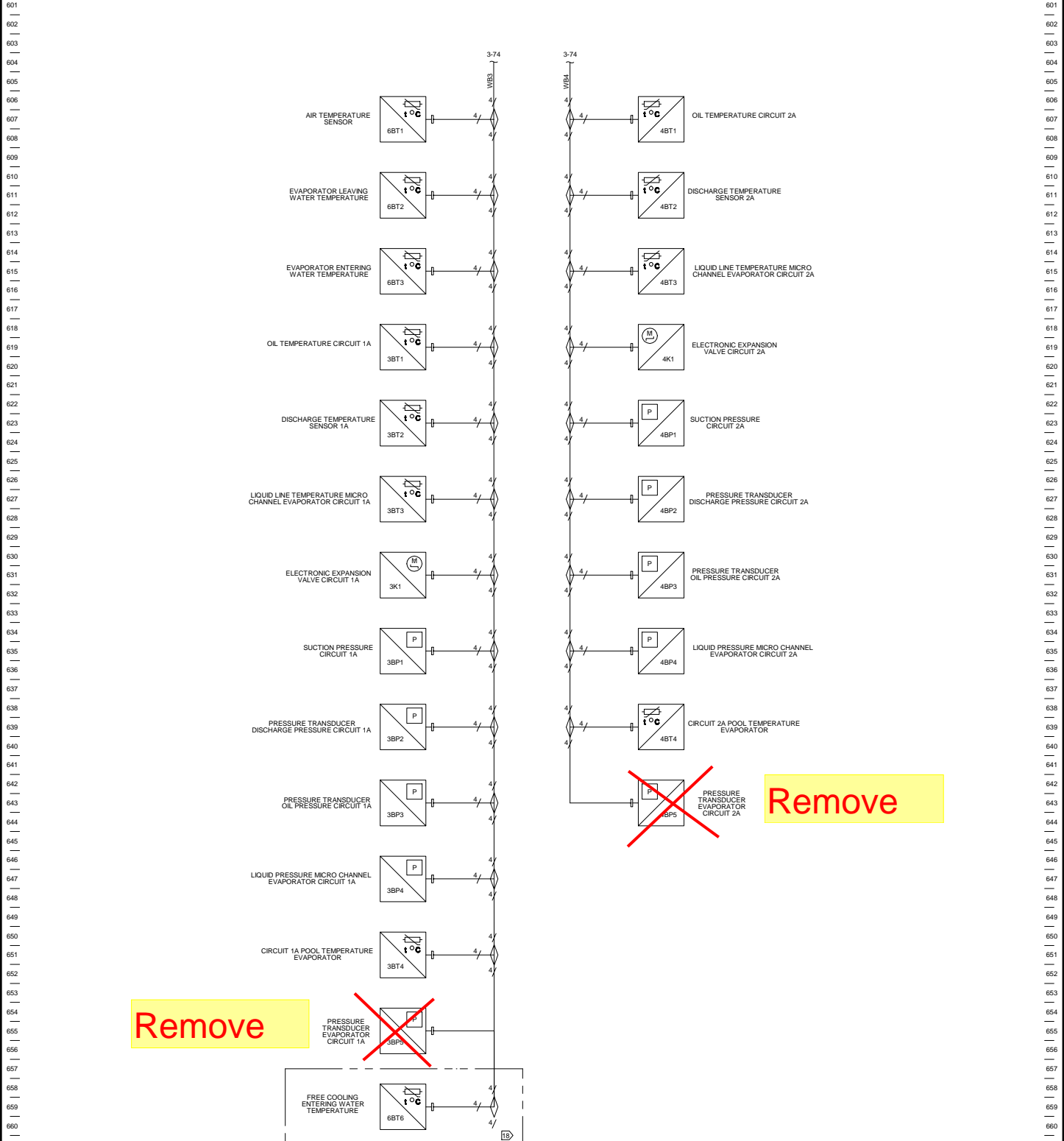


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CUSTOMER CONNECTIONS
RTAF
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 HIGH EFFICIENCY 115T-250T
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